

THE
Annual Report
ON THE
Work of the Health Department,
OF THE
County Borough of Wigan,
For the Year ending December 31st, 1910,
DONE UNDER THE SUPERVISION OF THE LATE
WILLIAM BERRY,
F.R.C.S.I., D.P.H., F.P. & S., Glasgow,
FORMERLY MEDICAL OFFICER OF HEALTH,
AND
J. FOREMAN BERRY,
M.B., Ch. B., L.R.C.P., &c.,
Acting Medical Officer of Health.



WIGAN:

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HEALTH COMMITTEE.

From November, 1910, to November, 1911.

CHAIRMAN :

ALDERMAN J. PHILLIPS, J.P.

VICE-CHAIRMAN :

COUNCILLOR H. BARTON.

THE MAYOR.

THE EX-MAYOR.

COUNCILLOR J. F. A. BENNET.

„ M. BENSON, M.D., J.P.

„ J. BRADSHAW.

„ T. CHADWICK.

„ J. COUNSELL.

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„ W. HIGHTON.

„ H. LITHERLAND.

„ A. E. MATHER.

„ H. ROSS.

Committee meets on the 3rd Thursday in each month, at 3-0 p.m.

SANITARY WORKS COMMITTEE.

From November, 1910, to November, 1911.

CHAIRMAN :

ALDERMAN J. PAXTON.

VICE-CHAIRMAN :

COUNCILLOR J. P. HEYES.

THE MAYOR.

THE EX-MAYOR.

ALDERMAN L. BOOTH, J.P.

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„ J. CHEETHAM, J.P.

„ H. LITHERLAND.

„ W. LOWE, J.P.

„ R. RATCLIFFE.

Committee meets on the 4th Monday in each month, at 3-45 p.m.

SANATORIA SUB-COMMITTEE.

From November, 1910, to November, 1911.

CHAIRMAN :

COUNCILLOR H. BARTON.

THE MAYOR.

THE EX-MAYOR.

ALDERMAN J. PHILLIPS, J.P.

COUNCILLOR J. BRADSHAW.

„ M. BENSON, M.D., J.P.

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„ A. E. MATHER.

„ S. CHADWICK.

„ H. LITHERLAND.

Committee meets the Wednesday before the 3rd Thursday in each month, at 11 a.m.

INSANITARY HOUSES COMMITTEE.

From November, 1910, to November, 1911.

CHAIRMAN :

ALDERMAN A. BYWATER, J.P.

VICE-CHAIRMAN :

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THE MAYOR.

THE EX-MAYOR.

ALDERMAN R. BRITTON.

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„ A. E. BAUCHER.

„ J. F. A. BENNETT.

„ T. CHADWICK.

„ J. HEATON, J.P.

„ F. J. PAGETT.

„ J. BURROWS.

The Committee meets when required.

MEDICAL OFFICER OF HEALTH'S DEPARTMENT, 1911.

Medical Officer of Health,
Medical Superintendent of Sanatoria,
Superintendent School Medical Officer :
J. RANDAL HUTCHINSON, M.B., Ch.B., D.P.H.

Chief Sanitary Inspector :
JOHN SUMNER, Certif. San. Inst., and Assoc. Royal San. Inst.,
Cert. City of London Guilds (Plumbing).

Assistant Sanitary Inspectors :
CHARLES H. FRANCE, Certif. San. Inst.
FRED MARTLEW, Certif. San. Inst.

Smoke, Shop Hours Act, and Factory and Workshop Act :
FRED G. BISHOP.

Sub-Inspector :
JOHN ASHTON.

Lady Health Visitor :
Miss ALLDRITT, Certif. San. Inst., and National Health Society
(Silver Medal), Certif. C.M.B.

Clerk :
ARTHUR BYERS.

Enquiry Office :
ERNEST RICHARDSON.

Disinfectors :
JAMES RISLEY.
GEORGE CROSTON.
HENRY PARKINSON.
JOHN ARROWSMITH.

Master of Sanatorium :
MICHAEL MOORE.

By order of the Local Government Board, dated March 23rd, 1891, Article 18, Section 14, it is prescribed that the Medical Officer of Health shall “prepare an Annual Report, to be made to “the end of December in each year, comprising a summary “of the action taken during the year for preventing the spread “of disease, and an account of the sanitary state of his district “generally at the end of the year. The report shall also “contain an account of the enquiries which he has made as “to conditions injurious to health existing in his district, and “of the proceedings in which he has taken part, or advised “under the Public Health Act, 1875, so far as such proceedings “relate to those conditions ; and also an account of the supervision exercised by him or on his advice, for sanitary purposes “over places and houses that the Sanitary Authorities have “power to regulate, with the nature and results of any proceedings which may have been so required and taken in respect “of the same during the year. It shall also record the action “taken by him or on his advice, during the year, in regard “to offensive trades, and to factories and workshops. The “report shall also contain tabular statements (on forms to “be supplied by the Local Government Board, or to the like “effect) of the sickness and mortality within the district, “classified according to diseases, ages, and localities.”

CORPORATION OF WIGAN.

HEALTH DEPARTMENT,

April 3rd, 1911.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I have the honour to present to you the Annual Report on the Health of your County Borough for the year 1910.

In the middle of the year the work of the department was interrupted by the sudden and unexpected death of its head—Dr. William Berry.

The zeal and energy which he displayed in any matter relating to the public welfare, are too well known to require comment and they are reflected in the staff which he controlled with conspicuous success.

There is no doubt but that his genial presence has been sadly missed. His unfinished work was taken up by his son, Dr. J. Foreman Berry, and I should like to take this opportunity of thanking him for his many kindnesses when he retired from office on January 31st, last.

The death-rate calculated on an estimated population of 94,654, is 14·55, against 18·28 in 1909 : this shows a decrease of 3·73 per 1,000 of the population.

The birth-rate is 29·26, against 30·67 for last year : this shows a decrease of 1·41.

The total number of deaths from Zymotic Diseases is 132 ; a rate of 1·39, against 2·47 in 1909.

The Infantile deaths number 133 per 1,000 births, whilst the corresponding figure for England and Wales is 106 ; the figures for last year were 169 and 109 respectively.

The number of deaths in persons over 60 years of age was 331, as against 341 in 1909.

A few picked cases of Pulmonary Tuberculosis have been treated in the Doecker Hospital with some success; these patients were of the pauper class and were maintained by the Guardians.

Scarlet Fever gave us for Hospital treatment 201 cases, as against 331 in 1909. The death-rate from this disease was .10, as compared with .17 in 1909.

Enteric Fever was very prevalent in 1910, particularly during the months of February, November and December; 90 cases were treated in the Sanatorium. The death-rate for all cases of Enteric Fever was .27, against .19 in 1909. The Sanatorium death-rate for this disease was 16.6%, but there is no doubt but that the worst and most hopeless cases were here treated.

On behalf of Dr. J. Foreman Berry I have to express my thanks to Mr. Sumner and the rest of the inspectorial staff, for their loyal co-operation and assistance generously given at all times. To Miss Alldritt also my best thanks are due.

I am, Mr. Chairman and Gentlemen,

Your obedient Servant,

J. RANDAL HUTCHINSON,

Medical Officer of Health.

PART I.

VITAL STATISTICS.

REPORT.

STATISTICAL SUMMARY FOR 1910.

Population estimated July 1st, 1910.....	94,654
<i>Marriages</i> are not ascertained for the County Borough.	
„ Annual rate per 1,000 of population ditto.	
<i>Births</i> { Males 1415 } Total 2770	
{ Females 1355 }	
Annual rate of births per 1,000 of population.....	29·26
Ditto for England and Wales.....	24·8
Illegitimate births 131, or 1·38 per 1,000 of population, a percentage of	4·7
<i>Deaths</i> { Males 703 } Total 1378	
{ Females..... 675 }	
Annual rate of mortality.....	14·55
Ditto in England and Wales	13·4
Death-rate in 77 great towns	14·3
Ditto 136 smaller „	12·9
Ditto Rural England and Wales	12·8
Excess of registered births over deaths	1392
Total deaths from Zymotic Diseases	132
Annual rate of mortality from Zymotic Diseases	1·39
Ditto in England and Wales	0·99
Total deaths from Diarrhœa	63
Annual rate of mortality from Diarrhœa	·66
Infantile rate (deaths per 1,000 births), 1910	133
Ditto for England and Wales	106
Deaths of Infants under one day old, number	43

Acreage.—With an acreage of 5,082, and a population estimated at 94,654, we have 18·62 persons per acre.

Population.—The population estimated at the middle of the year (June 30th, 1910) is 94,654, and this may be taken as fairly correct, in accordance with the number of inhabited houses on July 1st.

Births.—The number of births registered during 1910 is 2,770 (males 1,415, females 1,355), the rate per 1,000 of the population being 29·26. The birth-rate, compared with 1909 is 1·41 lower. The illegitimate births number 131, or 4·7%.

The Mortality Rate.—The deaths for 1910 number 1,378 (males 703, females 675), being an excess of 28 males over females. The rate per 1,000 of the population per annum is 14·55 ; in 1909, 18·28 ; thus on a population of 94,654 we have a decrease in deaths of 327 over 1909. There is therefore a decrease in the death-rate of 3·73 per 1,000.

The death-rate for each quarter is as follows :—

1910.	All causes.	Zymotics.
1st Quarter	16·48	·97
2nd Quarter	13·25	·55
3rd Quarter	12·39	2·03
4th Quarter	15·32	1·88

The zymotic-rate, 1·39, shows a decrease for 1910. The previous year it was 2·47, showing a decrease of 1·08. This is due to a decrease chiefly in the number of deaths from measles and whooping cough.

The Vital Statistics for England and Wales during 1910.

ENGLAND AND WALES.

	1910.	1909.
Birth-rate per 1,000 living	24·8	25·6
Death-rate per 1,000 living.....	13·4	14·5
Seven Epidemic Diseases per 1,000 living.....	0·99	1·12
Infant Mortality per 1,000 Births	106	109

TABLE I.

WEEKLY RETURN OF BIRTHS AND DEATHS FOR 1910.

1910 WEEK ENDING.		Deaths from all Causes.	Annual Rate per 1000.	Deaths from Zymotics	Zymotic Rate	Births.	Annual Rate per 1000.
January	1	39	21.75	2	1.11	46	25.65
"	8	34	18.96	...	...	60	33.46
"	15	26	14.49	...	...	62	34.55
"	22	25	13.92	...	...	59	32.86
"	29	37	20.61	1	.55	56	31.19
February	5	33	18.37	1	.55	54	30.06
"	12	22	12.24	3	1.66	54	30.06
"	19	26	14.47	3	1.66	56	31.16
"	26	24	13.35	2	1.11	58	32.27
March	5	42	23.35	3	1.66	61	33.92
"	12	26	14.46	2	1.11	65	36.15
"	19	28	15.56	5	2.77	45	25.01
"	26	23	12.78	1	.55	53	29.46
April	2	26	14.44	1	.55	41	22.77
"	9	24	13.33	2	1.11	54	30.00
"	16	29	16.10	1	.55	76	42.19
"	23	24	13.31	1	.55	48	26.63
"	30	30	16.64	...	...	59	32.74
May	7	12	6.65	1	.55	47	26.67
"	14	20	11.08	...	...	68	37.69
"	21	26	14.41	...	...	42	23.28
"	28	31	17.17	3	1.66	69	38.22
June	4	20	11.07	...	...	60	33.22
"	11	26	14.39	1	.55	70	38.75
"	18	21	11.62	3	1.66	54	29.88
"	25	22	12.16	...	...	60	33.18
July	2	17	9.40	...	...	51	28.20
"	9	23	12.71	1	.55	62	34.27
"	16	13	7.18	1	.55	48	26.51
"	23	30	16.57	2	1.10	52	28.72
"	30	23	12.70	2	1.10	42	23.19
August	6	20	11.04	3	1.65	39	21.53
"	13	26	14.35	7	3.86	39	21.53
"	20	26	14.34	8	4.41	47	25.93
"	27	20	11.03	6	3.30	50	27.59
September	3	27	14.90	6	3.31	42	23.17
"	10	25	13.78	6	3.30	50	27.57
"	17	17	9.37	3	1.65	42	23.16
"	24	25	13.78	3	1.65	50	27.56
October	1	37	20.39	8	4.40	54	29.76
"	8	26	14.32	3	1.65	55	30.30
"	15	19	10.46	7	3.85	43	23.69
"	22	32	17.62	3	1.65	45	24.77
"	29	26	14.31	4	2.20	45	24.77
November	5	30	16.51	1	.55	41	22.57
"	12	28	15.41	1	.55	45	24.77
"	19	26	14.30	3	1.65	46	25.31
"	26	24	13.20	3	1.65	45	24.76
December	3	32	17.60	4	2.20	46	25.31
"	10	39	21.45	5	2.75	57	31.35
"	17	29	15.95	...	...	51	28.05
"	24	25	13.74	3	1.64	50	27.48
"	31	17	9.34	3	1.65	56	30.78

TABLE II.

MONTHLY LIST OF DEATHS FROM ALL CAUSES
AND ZYMOTIC DISEASES WITH RATES
PER 1,000 PER ANNUM FOR 1910.

MONTH.	No. of Deaths from all Causes	Annual Rate per 1000 living	No. of Deaths from Zymotic Diseases	Annual Rate per 1000 living	Deaths of	
					Infants under 1 yr.	Persons over 60 yrs
January	161	17·94	3	·33	43	50
February	105	14·60	9	1·24	28	27
March	119	16·53	11	1·52	28	31
April	133	14·76	5	·55	34	33
May	89	12·32	4	·55	21	25
June	89	12·31	4	·55	17	26
July	106	11·71	6	·66	29	21
August	92	12·69	24	3·30	30	14
September	94	12·95	18	2·47	28	18
October	140	15·42	25	2·75	43	24
November	108	14·85	8	1·10	33	23
December	142	15·61	15	1·64	35	39
Totals	1378	14·55	132	1·39	369	331

TABLE III.

TABLE SHOWING COMPARATIVE STATISTICS BETWEEN
WIGAN AND OTHER TOWNS DURING 1910.

TOWN.	Population	Birth Rate.	Death Rate.	Zymotic Rate.	Infantile Death Rte per 1,000 Births.	Res- piratory Death Rate.	Phthisis Death Rate.
Accrington	46,850	19·76	12·80	·79	109	1·75	·79
Bath	50,000	18·1	11·8	0·74	82	1·98	0·92
Birkenhead.....	122,232	30·51	16·30	2·05	135	3·04	1·24
Blackburn	136,996	21·5	14·2	1·4	136	2·6	0·80
Blackpool	63,216	15·90	10·83	0·73	104	1·64	0·60
Bootle	72,000	28·0	14·1	1·8	123	2·9	1·1
Bradford	295,865	18·56	13·86	1·31	127	2·09	1·10
Burton-on-Tr't	53,500	21·6	11·73	1·27	84	1·66	1·10
Bury	59,409	20·79	14·61	1·06	124	2·27	1·23
Cardiff	199,189	24·2	11·8	0·93	111	1·99	1·08
Carlisle	51,433	22·2	12·6	0·4	109	1·9	1·01
Coventry.....	102,000	27·2	11·8	0·78	86	1·58	0·89
Crewe	48,340	23·00	11·8	1·40	103	1·71	0·7
Derby	131,256	24·1	11·01	0·7	85	1·4	0·9
East Ham.....	156,208	22·1	8·5	0·67	90	1·48	0·71
Folkestone	36,630	16·1	9·9	·5	60	1·0	1·0
Gt. Yarmouth .	53,715	25·7	12·89	2·03	141	2·7	1·06
Halifax	108,200	17·1	13·2	·7	89	2·2	·9
Huddersfield ...	94,703	22·93	16·64	1·13	99	2·46	1·18
Hull	280,006	28·6	15·1	1·9	135	2·6	1·0
Ipswich	75,936	23·9	13·5	1·07	95	1·64	1·31
Lancaster	44,270	20·63	12·53	·76	137	2·00	·88
Leigh	48,000	25·29	14·52	·89	139	3·8	1·00
Oldham	144,111	26·0	17·2	1·8	127	3·3	1·2
Plymouth	126,266	20·19	13·7	1·15	114	2·19	1·27
Reading	85,650	19·53	9·85	0·36	75	1·33	0·79
Rochdale	90,497	21·89	15·04	0·76	102	2·76	1·05
South Shields...	119,737	28·0	13·7	1·29	111	2·20	1·13
St. Helens	96,523	32·52	14·56	1·26	122	2·65	0·94
Stockport	105,087	25·60	17·03	1·62	137	4·49	1·39
Swansea	110,300	30·77	16·2	1·13	117	2·39	1·42
Tottenham	150,722	24·54	10·05	·68	86	·06	·49
Warrington	73,580	30·2	14·5	1·2	113	2·1	1·07
WIGAN	94,654	29·26	14·55	1·39	133	3·33	·69
Wolverh'pton...	106,273	22·51	12·14	0·66	106	2·17	0·72
York	88,159	22·5	11·9	0·72	94	2·03	0·78

DEATH-RATE FOR WIGAN DURING THE LAST TEN YEARS.

1901.....	22·30	} Average for 10 years, 18·92.
1902.....	20·25	
1903.....	21·69	
1904.....	21·49	
1905.....	18·07	
1906.....	17·61	
1907.....	18·03	
1908.....	16·97	
1909.....	18·28	
1910.....	14·55	

Infantile Mortality.—The number of deaths of children under one year is 369, or 133 per 1,000 births, and of children over one year and under five years 178, or 1·88 per 1,000 of the population.

In regard to this infantile mortality there were 43 deaths in children who did not live more than 24 hours, and if we deduct these there would only be 326 deaths, or 117 per 1,000 births ; with a large birth-rate we necessarily have a larger proportion of premature births.

Senile Mortality.—The number of deaths of persons of 60 years of age and over is 331, or 3·49 per 1,000 of population.

No. OF DEATHS IN DIFFERENT WARDS IN WIGAN, 1910.

Estimated Pop'l'tion.	Ward.	1st Quarter.	2nd Quarter.	3rd Quarter.	4th Quarter.	Totals.	Rate.
4,990	1	28	20	18	24	90	18·03
5,651	2	23	11	10	19	63	11·14
7,436	3	32	30	38	40	140	18·82
9,647	4	48	32	41	55	176	18·24
4,646	5	17	16	13	22	68	14·63
5,700	6	27	13	11	15	66	11·57
5,301	7	18	16	22	34	90	16·97
13,016	8	63	61	40	40	204	15·67
8,097	9	26	23	11	30	90	11·11
3,963	10	13	11	11	12	47	11·85
4,705	11	12	11	7	17	47	9·98
8,072	12	24	23	36	34	117	14·49
6,266	13	27	20	18	17	82	13·08
5,435	14	27	24	16	31	98	18·03
94,654	Total ...	385	311	292	390	1378	14·55

WIGAN CENSUS, 1901.

WARD.	Separate Families	HOUSES				Tenements with less than five rooms	PERSONS		Totals
		In- habited	Uninhabited		Males		Females		
			InOccu- pation	Not inOc- cupation					
No. 1, or St. George Ward	959	919	87	17	...	753	2406	2524	4930
No. 2, or Lindsay Ward	924	913	22	12	6	592	2310	2472	4782
No. 3, or St. Catharine Ward	1234	1193	20	5	...	863	3169	3435	6604
No. 4, or St. Patrick Ward...	1586	1567	46	10	3	954	4714	4470	9184
No. 5, or St. Thomas Ward...	939	890	42	4	...	703	2394	2451	4845
No. 6, or Poolstock Ward.....	977	950	18	3	4	523	2424	2613	5037
No. 7, or Victoria Ward	999	949	33	4	4	688	2440	2586	5026
No. 8, or St. Andrew Ward...	1684	1662	29	14	29	501	4658	2642	9280
No. 9, or Swinley Ward.....	1386	1368	46	41	14	453	3224	4043	7267
No. 10, or All Saints Ward....	709	709	327	28	25	360	1811	1925	3736
Canal Boats .....	...	...	...	...	...	...	60	19	79
Wards not stated .....	...	...	...	...	...	...	...	...	...
Totals	11388	11120	670	138	85	6390	29610	31160	60770

Percentage of increase in population, England and Wales
since Census of 1891 12·15.

The preceding period, 1881-91 11·65.

Increase in Wigan 10·46.

LOCAL GOVERNMENT BOARD RETURNS.
TABLE I.—VITAL STATISTICS OF WHOLE DISTRICT DURING 1910 AND PREVIOUS YEARS.
Name of District—Wigan County Gorough.

B

YEAR	Population estimated to Middle of each Year	BIRTHS		TOTAL DEATHS REGISTERED IN THE DISTRICT					TOTAL DEATHS IN PUBLIC INSTITUTIONS IN THE DISTRICT	Deaths of Non-residents registered in Public Institutions in the District	Deaths of Residents registered in Public Institutions beyond the District	NETT DEATHS AT ALL AGES BELONGING TO THE DISTRICT	
		Number	Rate*	Under 1 Year of Age		At all Ages		Number				Rate*	
				Number	Rate per 1,000 Births registered	Number	Rate*						
1	2	3	4	5	6	7	8	9	10	11	13	12	
1900.....	60,740	2,177	36.00	404	190	1,520	25.06	290	133		1,387	22.90	
1901.....	60,923	2,245	36.40	457	203	1,537	24.87	280	158		1,379	22.30	
1902.....	61,827	2,311	37.42	366	158	1,393	22.58	269	142		1,251	20.25	
1903.....	62,689	2,221	35.47	388	174	1,511	24.09	313	152		1,359	21.69	
1904.....	64,249	2,223	34.59	418	188	1,528	23.78	301	147		1,381	21.49	
1905.....	88,306	2,918	33.04	476	163	1,717	19.44	277	121		1,596	18.07	
1906.....	89,342	2,920	32.68	468	160	1,713	19.17	294	138		1,575	17.61	
1907.....	90,765	2,728	30.05	446	163	1,751	19.29	276	114		1,637	18.03	
1908.....	92,114	2,934	31.85	453	154	1,710	18.56	349	146		1,564	16.97	
1909.....	93,263	2,861	30.67	486	169	1,836	19.68	337	131		1,705	18.28	
Averages for years 1900-1909	76,421	2,553	33.81	436	172	1,621	21.65	298	138		1,483	19.75	
1910.....	94,654	2,770	29.26	369	133	1,486	15.69	268	108		1,378	14.55	

*Rates in columns 4, 8, and 13 calculated per 1,000 of estimated population.

Area of District in acres (exclusive of area covered by water) 5,082. At Census of 1901 the total population at all ages was 82,428; number of inhabited houses 15,095; average number of persons per house 5.4.

Institutions within the District receiving sick and infirm persons from outside the District—Royal Albert Edward Infirmary, Union Workhouse, Wigan Sanatorium, Pemberton Sanatorium.
Is the Union Workhouse within the District?—Yes.

TABLE II.—VITAL STATISTICS OF SEPARATE LOCALITIES IN 1910 AND PREVIOUS YEARS.

Name of District—Wigan County Borough.

YEAR.	Population estimated to middle of each year.	Births registered.	Deaths at all ages.	Deaths under 1 year.
1900.....	60,740	2,177	1,520	404
1901.....	60,923	2,245	1,537	457
1902.....	61,827	2,311	1,393	366
1903.....	62,689	2,221	1,359	388
1904.....	64,249	2,223	1,381	418
1905.....	88,306	2,918	1,596	476
1906.....	89,342	2,920	1,575	468
1907.....	90,765	2,728	1,637	446
1908.....	92,114	2,934	1,564	453
1909.....	93,263	2,861	1,705	486
Averages of Years 1900 to 1909.	76,421	2,553	1,483	436
1910.....	94,654	2,770	1,378	369

TABLE III.—CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR, 1910.

Name of District—Wigan County Borough.

NOTIFIABLE DISEASE.	CASES NOTIFIED IN WHOLE DISTRICT.							NO. OF CASES REMOVED TO HOSPITAL FROM EACH LOCALITY.						Total cases removed to Hospital.
	At all Ages.	Under 1.	1 to 5.	5 to 15.	15 to 25.	25 to 65.	65 and up-wards.	Wig'n. Aspull.	Haigh. Ince.	W. U. Infirm. Bil'nge	Pem- berton.			
Diphtheria (including Memb. Croup)	38	2	17	12	4	3	...	...	...	...	...	...
Erysipelas.....	70	2	2	5	10	43	6	...	...	...	...	...
Scarlet Fever	395	4	106	255	26	4	...	201	2	...	37	240		
Enteric Fever	128	...	7	46	31	44	...	90	...	1	...	98		
Puerperal Fever	4	...	...	...	2	2	...	...	...	...	...	...
Phthisis.....	35	...	1	2	5	26	1	10	...	...	...	12
Measles .....	...	...	...	...	...	...	...	3	...	...	...	3
Total	670	8	133	320	78	122	9	304	2	1	37	353		

Isolation Hospital (Name and Situation)—Wigan Sanatorium, Wigan; total available beds, 103.

Cottage Hospital, Wigan, Pemberton ;
16.
,"

TABLE IV.—CAUSES OF, AND AGES AT, DEATH DURING YEAR 1910.
Name of District—Wigan County Borough.

CAUSES OF DEATH.	DEATHS AT THE SUBJOINED AGES OF RESIDENTS, WHETHER OCCURRING IN OR BEYOND THE DISTRICT.							Total Deaths in Public Institu- tions in District
	All ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and Up- wards	
Measles	8	3	4	1	...	...	...	...
Scarlet Fever	10	1	3	5	1	...	...	...
Whooping Cough	13	5	8	...	...	...	...	...
Diphtheria (including Membraneous Croup)	8	2	4	2	...	...	...	...
Enteric Fever	26	...	1	4	6	15	...	...
Epidemic Influenza	1	...	...	...	1	...	...	...
Diarrhoea	63	40	21	...	...	2	...	...
Enteritis	33	19	7	2	2	3	...	...
Gastritis	4	1	...	1	...	2	...	...
Puerperal Fever	2	...	...	...	...	2	...	...
Erysipelas.....	2	...	...	...	...	2	...	...
Phthisis (Pulmonary Tuberculosis)	66	2	4	2	10	46	2	...
Other Tuberculous Dis- eases	34	9	12	7	3	3	...	...
Cancer, malignant Dis- ease	39	1	...	...	...	30	8	...
Bronchitis.....	143	22	6	2	...	60	53	...
Pneumonia	173	53	41	7	4	51	17	...
Alcoholism	6	...	...	...	...	6	...	...
Cirrhosis of Liver	8	...	...	...	...	7	1	...
Premature Birth	58	58	...	...	...	...	...	...
Diseases and Accidents of Parturition	6	...	...	...	1	5	...	...
Heart Disease	69	1	2	2	4	39	21	...
Accidents	36	...	8	6	5	16	1	...
Suicides.....	10	...	...	...	...	8	2	...
Wasting	58	48	10	...	...	...	...	...
Convulsions	7	7	...	...	...	...	...	...
Rheumatism	17	...	1	2	4	2	1	...
All other causes	485	97	46	14	13	185	130	...
All causes	1378	369	178	57	54	484	236	268

STATEMENT OF DEATHS OCCURRING IN WIGAN, BUT OF NON-RESIDENTS.

Deaths from :—

		Years.	
Accidents	16	Under	1..... 4
Bronchitis.....	10	1 and under	5..... 8
Cancer	5	5	15..... 8
Heart Affections	4	15	25..... 10
Other Diseases.....	53	25	35..... 15
Phthisis.....	3	35	45..... 15
Pneumonia	9	45	55..... 12
Other Tubercular Diseases	3	55	60..... 11
Wasting Diseases	2	60	65..... 12
Enteric	1	Over	65..... 13
Measles	1		
Diarrhoea	1		
	108		108

INFANTILE MORTALITY DURING THE YEAR 1910.

TABLE V.—DEATHS FROM STATED CAUSES IN WEEKS AND MONTHS UNDER ONE YEAR OF AGE.

Borough—County Borough of Wigan.

CAUSE OF DEATH.	Under 1 Week		1-2 Weeks		2-3 Weeks		3-4 Weeks		Total under 1 Month	1-2 Months		2-3 Months		3-4 Months		4-5 Months		5-6 Months		6-7 Months		7-8 Months		8-9 Months		9-10 Months		10-11 Months		11-12 Months		Total deaths under one year.
	73	22	15	6	116	20	33	34	29	16	18	16	24	22	21	19	...	368														
All Causes. {	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
Scarlet Fever	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Diphtheria (including Membranous Croup)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Diarrhoea, all forms	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
Enteritis, Muco-enteritis, Gastro-enteritis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	40
Gastritis, Gastro-intestinal Catarrh	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
Premature Birth	44	3	2	1	50	3	3	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Congenital Defects	11	4	...	...	15	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	58
Want of Breast-milk, Starvation	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
Atrophy, Debility, Marasmus	4	6	5	1	16	4	9	4	3	3	3	3	5	3	3	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
Tuberculous Meningitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	60
Tuberculous Peritonitis: Tabes Mesenterica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Meningitis (not Tuberculous)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
Convulsions	3	2	...	...	5	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7
Bronchitis	...	3	2	1	6	...	2	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22
Pneumonia	...	1	1	...	2	...	1	6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	53
Other causes	12	3	4	...	19	8	3	8	2	...	2	3	2	3	3	3	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	57
	74	22	15	6	117	20	33	34	29	16	18	16	24	22	21	19	...	369														

District or sub-division) of Wigan. Population (estimated to middle of 1910) 94,654. Births in the year: legitimate 2,639, illegitimate 131. Deaths from all causes at all ages 1,378.

List of Streets in which Deaths from the following diseases have occurred :—

STREET.	Ward	Small Pox	Scarlet	Enteric	Typhus	Diphtheria	Whoopingcough	Measles	Diarrhoea	Pulmonary	Rheumatism	Cancer	Other	Total
Alliance Street . . .	1	.	.	.	.	.	.	.	1	.	.	.	.	1
Acton's Yard	1	.	.	.	.	.	.	.	.	1	.	.	1	2
Altham's Yard . . .	1	.	.	.	.	.	.	.	.	.	.	1	.	1
Arundel Street . . .	2	.	.	.	.	.	.	.	.	1	.	.	.	1
Anderton Street . .	4	.	.	.	.	.	.	.	.	5	.	.	7	12
Afghan Street . . .	4	.	.	.	.	.	.	.	.	.	.	.	1	1
Ashton Street . . .	4	.	.	.	.	.	.	.	.	.	.	.	3	3
Adelaide Street . .	5	.	.	.	.	.	.	.	.	2	.	.	6	8
Acton's Walk	5	.	.	.	.	.	.	.	.	.	.	.	2	2
Addison Street . .	7	.	.	.	.	.	.	.	.	1	.	.	2	3
Appleton Street . .	7	.	.	.	.	.	.	.	.	.	.	.	1	1
Ascroft Avenue . . .	8	.	.	.	.	.	.	.	.	.	.	.	2	2
Avondale Road . . .	9	.	.	.	.	.	.	.	.	.	.	.	2	2
Alfred Street	9	.	.	.	.	.	.	.	.	1	.	.	1	2
Ashland Avenue . .	9	.	.	.	.	.	.	.	.	.	.	.	1	1
Atherton Street . .	10	.	.	1	.	.	.	.	.	.	.	.	1	2
Anderton's Yard . .	11	.	.	.	.	.	.	.	.	.	.	.	1	1
Albert Street	12	.	.	1	.	.	.	.	.	.	1	.	7	9
Alexandra Street . .	12	.	.	.	.	.	.	.	2	.	.	.	2	4
Alker Street	12	.	.	.	.	.	.	.	.	.	.	.	1	1
Argyle Street	12	.	.	.	.	.	.	.	.	.	.	.	1	1
Arundel Street . . .	12	.	.	.	.	.	.	.	.	.	.	.	2	2
Atherton Street . .	12	.	.	.	.	.	.	.	1	.	.	.	2	3
Alfred Street	14	.	.	.	.	.	.	.	1	.	.	.	3	4
Algernon Street . .	14	.	.	.	.	.	.	.	.	1	.	.	.	1
Arthur Street	14	.	.	.	.	.	.	.	.	2	.	.	1	3
Bold Street	1	.	.	.	.	.	.	.	.	1	.	.	.	1
Boyswell Lane . . .	1	.	.	.	.	.	.	.	1	.	.	.	6	7
Burlington Street .	2	.	.	.	.	.	.	.	.	.	.	.	3	3
Bottling Wood . . .	2	.	.	.	1	.	.	.	.	1	.	.	2	4
Bradshaw Street . .	2	.	.	.	.	.	.	.	.	.	.	.	3	3
Baron Street	3	.	.	.	.	.	.	.	.	.	.	.	2	2
Bedford Street . . .	3	.	.	.	.	.	.	.	.	.	.	.	1	1
Bolton Street	3	.	.	.	.	.	.	.	.	2	.	.	6	8
Birkett Bank	3	.	.	.	.	.	.	.	.	1	.	.	4	5
Birkett B. Terrace .	3	.	.	.	.	.	.	.	.	1	.	.	.	1
Birkett Bank	4	.	.	.	.	.	.	.	.	3	.	.	1	4
Bankes Street	4	.	.	.	.	.	.	.	.	2	.	.	.	2
Bryham Street . . .	4	.	.	.	.	1	.	.	.	.	.	.	1	2
Brown Street	4	.	.	.	.	.	.	.	.	1	.	.	.	1
Brookhouse Street .	4	.	.	.	.	.	.	.	.	2	.	.	1	3
Baldwin Street . . .	4	.	.	.	.	.	.	.	.	1	.	.	.	1
Bridgewater Street .	5	.	.	.	.	.	.	.	.	.	.	.	1	1
Bradford Street . .	5	.	.	.	.	.	.	.	.	1	.	.	2	3
Bradford Place . . .	5	.	.	.	.	.	.	.	.	.	.	.	1	1
Bridge Street	5	.	.	.	.	.	.	.	.	1	.	.	.	1
Byrom Street	6	.	.	.	.	1	.	.	.	.	.	.	5	6
Byron Street	6	.	.	.	.	.	.	.	.	.	.	.	3	3
Barton's Terrace . .	6	.	.	.	.	.	.	.	1	.	.	.	.	1
Brown Street	7	.	.	.	.	.	.	.	.	2	.	.	3	5

List of Streets in which Deaths from the following diseases have occurred :—

STREET.	Ward	Small Pox	Scarlet	Enteric	Typhus	Diphtheria	Whoopingcough	Measles	Diarrhoea	Pulmonary	Rheumatism	Cancer	Other	Total	STREET.	Ward	Small Pox	Scarlet	Enteric	Typhus	Diphtheria	Whoopingcough	Measles	Diarrhoea	Pulmonary	Rheumatism	Cancer	Other	Total
Gee Street	4	..	..	..	..	..	..	..	..	..	..	..	3	3	Lord Street	9	..	..	..	..	..	..	..	..	..	..	..	..	4
Gilroy Street.....	4	..	1	..	..	..	..	..	..	..	..	..	..	1	Leader Street	11	..	..	..	..	..	..	..	..	..	..	..	1	1
Greenough's Row .	4	..	..	..	..	..	..	..	..	1	..	..	..	6	Lady Lane	13	..	..	..	..	..	..	..	..	..	..	..	..	1
Garden Street	4	..	..	..	..	..	..	..	..	..	..	..	..	1	Little Lane	13	..	..	..	..	..	..	..	..	..	..	..	..	1
Granville Street ..	6	..	..	..	..	..	..	..	..	..	..	..	..	2	Litchfield Street ..	13	..	..	..	..	..	..	..	..	..	..	..	..	1
Great George St...	7	..	..	1	..	..	..	..	..	1	1	..	9	12	Little Lane	14	..	..	..	..	..	..	..	..	..	..	..	3	4
Gidlow Lane	8	..	..	..	..	..	..	..	1	2	..	..	6	8	McEwan's Yard...	1	..	..	..	..	..	..	..	..	..	..	..	1	1
Gorman Street	8	..	..	..	..	..	..	..	..	2	..	..	2	2	Millgate	1	..	..	..	..	..	..	..	..	..	..	..	3	3
Grayson's Yard ..	9	..	..	..	..	..	..	..	..	2	..	..	2	4	Marsh Lane	1	..	..	..	..	..	..	..	..	..	..	..	3	3
Glover's Yard	9	..	..	..	..	..	..	..	..	1	..	..	..	1	Mount Street	1	..	..	..	..	..	..	..	..	..	..	..	1	1
Gaskell's Yard.....	11	..	..	..	..	..	..	..	..	..	..	..	1	1	Mount Street	2	..	..	..	..	..	..	..	..	..	..	..	2	2
Gibraltar Street ..	11	..	..	..	..	..	..	..	..	..	..	..	1	1	Mint Terrace	2	..	..	..	..	..	..	..	..	..	..	..	1	1
Gore Street	11	..	..	..	..	..	..	..	..	..	..	..	1	1	Mint Court	2	..	..	..	..	..	..	..	..	..	..	..	1	1
Grosvenor Street..	12	..	..	1	..	..	..	..	..	..	..	..	..	1	McCormick Street ..	4	..	..	..	..	..	..	..	..	..	..	..	2	2
Gower Street	12	..	..	..	..	..	..	..	1	..	..	..	..	1	Morris' Yard	5	..	..	..	..	..	..	..	..	..	..	..	1	1
Grafton Street	14	..	..	..	..	..	..	..	..	..	..	..	1	1	Milton Street	6	..	..	..	..	..	..	..	..	..	..	..	1	1
Hilton's Yard	1	..	..	..	..	..	..	1	..	..	..	..	..	1	Mill Street	7	..	..	..	..	..	..	1	1	..	..	..	1	3
Hen Street	3	..	..	..	..	..	..	..	1	..	..	..	..	1	Miry Lane	7	..	..	..	..	..	..	2	..	..	..	5	7	
Holland Street	3	..	..	..	..	..	..	..	..	5	1	5	11	11	Mort Street	8	..	..	..	..	..	..	..	..	..	..	..	1	1
Higham Street	4	..	..	..	..	..	..	..	..	4	..	7	11	11	Moss Street	8	..	..	..	..	..	..	..	1	..	..	..	..	1
Hardybutts	4	..	..	..	..	..	..	..	1	6	..	12	19	19	Margaret Street...	8	..	..	..	..	..	..	..	1	..	..	2	3	
Hambleton Street..	4	..	..	..	..	..	..	..	..	1	..	..	1	1	Mesnes Street	9	..	..	..	..	..	..	..	..	..	..	..	1	1
Harper Street	4	..	..	..	..	..	..	..	..	..	..	..	2	2	Mariebone Place ..	9	..	..	..	..	..	..	..	..	..	1	..	..	1
Heaton's Yard	5	..	..	..	..	..	..	..	..	..	..	..	1	1	Millgate	10	..	..	..	..	..	..	..	..	..	..	3	3	
Hodson Street	5	..	..	1	..	..	..	..	..	..	..	..	1	2	Market Place	10	..	..	..	..	..	..	..	1	..	..	..	..	1
Herbert Street.....	7	..	..	..	..	..	..	..	2	..	..	..	2	4	Marsden Street	10	..	..	..	..	..	..	..	..	..	..	..	1	1
Howard's Yard ..	7	..	..	..	..	..	..	..	..	..	..	..	2	2	Moss Terrace	11	..	..	..	..	..	..	..	..	..	..	..	2	2
Hey Street	8	..	..	..	..	..	..	..	1	..	..	..	2	3	Manor Street	12	..	..	..	..	..	..	..	..	..	..	..	1	1
Horsefield Street .	8	..	..	..	..	..	..	..	..	..	1	1	2	2	Marsden Street	12	..	..	..	..	..	..	..	..	..	..	..	2	2
Holt Street	8	..	..	..	..	..	..	..	1	..	..	1	1	2	Marsh Green	12	..	..	..	..	..	..	..	..	..	..	..	4	4
Hodges Street	8	..	..	..	..	..	..	..	1	..	1	..	2	2	Mitchell Street	12	..	..	..	..	..	..	..	..	..	1	2	3	
Hardy Street	8	..	..	..	..	..	..	..	..	..	1	..	1	1	Marsh Street	14	..	..	..	..	..	..	1	1	..	..	3	5	
High Street	9	..	..	..	..	..	..	..	..	..	..	..	1	1	Nutt Street	2	..	..	..	..	..	..	..	..	1	..	..	..	1
Hilton Street	9	..	..	..	..	..	..	..	..	..	..	..	1	1	Northumberland St	3	..	..	..	..	..	..	..	1	..	..	3	4	
Hornby Street	9	..	..	..	..	..	..	..	1	..	..	..	1	2	Neville Street	3	..	..	..	..	..	..	..	..	..	..	2	2	
Harrogate Street..	10	..	..	..	..	..	..	..	..	2	1	1	5	8	Newark Street	8	..	..	..	..	..	..	..	1	..	..	1	2	
Hallgate	10	..	..	..	..	..	..	..	..	..	1	..	..	1	New Square	9	..	..	..	..	..	..	..	..	..	..	2	2	
Hartley Street	11	..	..	..	..	..	..	..	1	..	..	..	..	1	New Street.....	11	..	..	..	..	..	..	..	1	..	..	1	2	
Hopwood Street ..	12	..	..	..	..	..	..	..	1	..	..	..	4	5	Norley Road	11	..	..	..	..	..	..	..	..	..	..	1	1	
Holt Street	14	..	..	..	..	..	..	..	..	1	..	..	2	3	Noble Street	12	..	..	..	..	..	..	..	..	..	..	..	1	1
Isabella Street	3	..	..	..	..	..	..	..	..	1	..	..	..	1	Norfolk Street	12	..	..	..	..	..	..	..	..	..	..	..	1	1
Ingram Street.....	8	..	..	..	..	..	1	..	..	..	..	..	..	1	NorthumberlandSt	14	..	..	..	..	..	..	1	1	..	..	4	6	
Jockey Terrace ..	1	..	..	..	..	..	..	..	..	1	..	2	3	3	Orchard Street ...	1	..	..	..	..	..	..	..	2	..	..	1	3	
Jane Street	3	..	..	..	..	..	..	..	..	..	..	..	1	1	Oxford Street	2	..	..	..	..	..	..	..	1	..	..	3	4	
John Street	4	..	..	..	..	..	..	..	..	1	..	8	9	9	Orrell Street	4	..	..	..	..	..	..	..	1	..	..	..	1	1
Johnson Place	5	..	..	..	..	..	..	..	..	..	..	1	1	1	Ormandy's Houses	6	..	..	..	..	..	..	1	1	..	..	2	4	
James Street	5	..	..	..	..	..	..	..	..	1	..	..	1	1	Oldfield Street ...	6	..	..	..	..	..	..	..	..	..	..	1	1	
Jackson's Yard ..	7	..	..	..	..	..	..	..	..	..	..	1	1	1	Ormesher's Yard...	7	..	..	..	..	..	..	..	..	..	..	1	1	
Johnson Street ...	11	..	..	..	..	..	..	..	..	..	..	2	2	2	Orpington Street...	11	..	..	..	..	..	..	..	..	..	..	1	1	
Kendrick Street ..	3	..	..	..	..	..	..	1	..	..	..	1	1	2	Ormskirk Road	11	..	..	..	..	..	..	..	1	..	10	11		
Kirkless Street ..	3	..	..	..	..	..	..	..	2	..	..	..	2	2	Ormskirk Road	12	..	..	..	..	..	1	..	..	..	1	5	8	
Kent Street	4	..	..	..	..	..	..	..	..	..	..	1	1	1	Ormskirk Road	13	..	..	2	..	..	..	3	..	..	17	22		
Kendal Street	8	..	..	..	..	..	..	..	..	..	..	3	3	3	Orrell's Yard	14	..	..	..	..	..	..	1	..	..	..	..	1	1
Kimberley Street .	8	..	..	..	..	..	..	..	..	..	1	..	..	1	Primrose Hill.....	2	..	..	..	..	..	..	..	..	..	..	1	1	
Kenyon Road	9	..	..	..	..	..	..	..	..	..	..	3	3	3	Portland Street	2	..	..	..	..	..	..	2	..	..	..	..	2	2
Low Street	1	..	..	..	..	..	..	2	..	..	1	2	5	5	Perch Street	3	..	..	..	..	..	..	..	..	..	..	1	1	
Lower Morris St...	1	..	..	..	..	..	1	5	..	..	..	2	8	8	Platt Lane	3	..	..	..	..	..	1	4	..	13	18			
Lime Street	1	..	..	..	..	..	..	5	..	..	..	6	11	11	Prescott's Yard ..	4	..	..	..	..	..	..	..	..	..	..	1	1	
Lamb Street	2	..	..	..	..	..	..	1	..	..	..	..	2	2	Peer's Yard	5	..	..	..	..	..	..	..	..	..	..	1	1	
Lindsay Street	2	..	..	..	..	..	..	..	..	..	..	2	2	2	Princess Street	5	..	..	..	..	..	3	2	..	..	4	9		
Longshoot Street ..	2	..	..	..	..	..	..	..	1	..	..	2	3	3	Poolstock	6	..	..	..	..	..	..	..	..	..	..	2	2	
Linney Street	3	..	..	..	..	..	1	1	..	1	..	1	3	3	Pool Street.....	6	..	..	..	..	..	..	1	..	1	4	6		
Lorne Street	3	..	..	..	..	1	..	3	..	..	..	3	7	7	Park Street	6	..	..	..	..	..	..	..	..	..	..	1	1	
Leader Street	3	..	..	..	..	..	..	..	..	..	1	2	3	3	Pottery Street	6	..	..	..	..	..	..	1	..	..	..	1	2	
Leigh Street.....	4	..	..	..	..	..	..	..	..	..	..	1	2	2	Pottery Road	6	..	..	..	..	..	..	1	..	..	..	..	1	1
Lymm Street	4	..																											

List of Streets in which Deaths from the following diseases have
occurred :—

STREET.	Ward	Small Pox	Scarlet	Enteric	Typhus	Diphtheria	Whoopingcough	Measles	Diarrhoea	Pulmonary	Rheumatism	Cancer	Other	Total	STREET.	Ward	Small Pox	Scarlet	Enteric	Typhus	Diphtheria	Whoopingcough	Measles	Diarrhoea	Pulmonary	Rheumatism	Cancer	Other	Total
Princess Street ...	14	1	2	3	Trentham Street..	12	1	..	1	..	2
Queen Street ...	5	1	4	5	Tunstall Lanc....	13	1	1	3	..	5
Queen Street ...	13	1	2	3	6	Thompson Street..	14	1	1	2
Rigby's Yard.....	1	1	1	1	3	Thorn Street	14	1	1
Russell Street	1	1	1	2	Turner's Yard	14	1	1
River Street.....	2	..	..	..	..	..	..	..	..	1	..	..	..	1	Upper Morris St...	1	..	..	..	..	..	1	..	..	1	2	2	6
Regent Street	2	..	..	..	..	..	..	..	..	..	..	..	3	3	Union Street	4	..	..	..	..	..	..	..	2	..	..	1	3
Rupert Street	4	..	..	..	..	..	..	..	..	..	..	..	3	3	Union Workhouse.	8	..	..	..	..	..	1	..	21	1	2	56	81
Rylands Street ..	8	..	..	..	..	..	..	..	..	..	..	..	2	2	Up. St. Stepehn St.	8	..	..	..	..	..	..	..	..	..	..	2	2
Railway Street ...	8	..	..	..	..	..	..	..	1	..	..	..	..	1	Up. Dicconson St..	9	..	..	..	..	..	..	..	..	..	..	3	3
Ratcliffe Street ..	8	..	..	..	..	..	..	..	..	..	..	..	2	2	Vaughan Street ..	2	..	..	..	..	..	..	..	..	..	..	1	1
Richmond Street ..	10	..	..	..	..	..	..	..	..	..	1	..	1	1	Vine Street	2	..	..	..	..	..	..	..	..	..	1	2	3
Robin Hood Yard..	10	..	..	..	..	..	..	..	..	..	..	..	1	1	Von Blucher Sq...	3	..	..	..	..	..	..	..	..	..	..	1	1
Richmond Hill ...	11	..	..	..	..	..	..	..	1	..	..	..	..	1	Vauxhall Road ...	4	..	..	..	..	1	1	..	..	..	..	3	5
Richmond Street ..	14	..	..	..	..	..	..	..	1	..	..	..	..	1	Vine Grove	5	..	..	1	..	..	..	1	..	..	..	..	1
Scholes	1	..	..	..	..	..	..	..	2	..	..	..	1	3	Victoria Street ..	5	..	1	..	..	..	..	..	..	..	..	3	5
School Lane	1	..	..	..	..	..	..	..	..	3	..	..	2	2	Vere Street	7	..	1	..	..	..	1	..	..	..	..	..	2
School Street	1	..	..	..	..	..	..	..	..	3	..	1	3	7	Victoria Avenue ..	8	..	..	..	..	..	..	..	..	..	..	1	1
Standishgate	1	..	..	..	..	..	..	..	1	..	..	..	..	1	Victoria Street ...	12	..	..	..	..	1	1	..	..	..	7	9	
St. George's Ter...	1	..	..	..	..	..	..	..	1	..	..	..	1	2	Wolfendale's Yard	1	..	..	..	..	..	1	..	..	..	2	3	
Swan Terrace	1	..	1	..	..	..	..	..	..	..	..	..	..	1	Water Street	1	..	..	..	..	..	..	..	..	..	..	2	2
Scholes	2	..	..	..	..	..	..	..	..	..	..	..	3	3	Westminster St...	2	..	..	..	..	..	1	..	..	..	1	1	
Sole Street	3	..	..	..	..	..	..	..	..	..	..	..	1	1	Windsor Street ...	2	..	..	..	..	..	..	..	..	..	..	1	1
Seed Street	3	..	..	..	..	..	..	2	1	..	..	..	2	5	Whelley	2	..	..	..	..	2	1	..	..	..	3	6	
Scholes	3	..	..	..	..	..	..	..	2	..	..	..	2	4	Wright Street	2	..	..	..	..	..	..	..	..	..	..	1	1
Stanley Street	3	..	1	..	..	..	..	..	2	..	..	..	5	8	Wallace Lane	2	..	..	..	..	1	..	..	..	..	..	3	4
Schofield Lane.....	3	..	..	..	..	..	..	..	1	..	..	..	3	4	Whelley	3	..	..	..	..	..	2	..	1	4	7		
Swift's Square ...	3	..	..	..	..	..	..	..	1	..	..	..	2	3	William Street....	3	..	..	..	..	..	3	..	..	..	2	5	
Schofield Lane.....	4	..	..	..	..	1	..	..	..	..	..	..	4	2	Windermere St....	3	..	..	..	..	..	..	..	..	..	..	1	1
Scholes	4	..	..	..	..	..	..	..	..	..	..	..	4	4	Well Street	3	..	..	..	..	..	1	..	..	..	..	1	2
Sayer's Yard	4	..	..	..	..	..	..	..	1	..	..	..	..	1	Wellington Street.	4	..	..	..	..	1	1	..	..	..	3	5	
Spring Street	4	..	..	..	..	..	..	..	1	..	..	..	8	9	Warrington Lane ..	4	..	1	..	..	..	2	..	..	..	3	6	
Spring Grove	4	..	..	..	..	..	..	..	..	..	..	..	2	2	Walmesley Street .	4	..	..	..	..	..	..	..	..	..	2	2	
Silver Street	4	..	..	..	..	..	..	..	2	1	..	..	2	5	Wilton Street	4	..	..	..	..	..	..	..	..	..	1	1	
Sovereign Road....	4	..	..	..	..	..	..	..	1	..	..	..	1	2	Wallgate	5	..	..	..	..	1	..	..	..	..	..	1	1
Silverwell Terrace	4	..	..	..	..	..	..	..	..	..	..	..	1	1	Wood Street	5	..	..	..	..	1	..	..	..	..	..	1	2
Shared Street	4	..	..	..	..	..	..	..	..	..	..	..	2	2	Wallgate	6	..	..	..	..	..	1	..	..	..	3	4	
Sharp Street	7	..	..	..	..	..	..	..	..	..	..	..	1	1	Wignall Street	6	..	1	..	..	..	..	..	..	..	2	3	
Snape Street	7	..	..	..	..	..	..	..	..	..	..	..	2	2	Walmer Street....	6	..	..	..	..	1	2	..	..	..	1	4	
Swann Street	7	..	..	..	..	..	..	..	..	..	..	..	4	4	Westwood Road...	6	..	..	..	..	..	..	..	..	..	2	2	
Scott Street	8	..	..	..	..	..	..	..	..	..	..	..	2	2	Wilcock Street ...	7	..	..	..	..	..	..	..	..	..	1	1	
Springfield Road ..	8	..	..	..	..	..	..	..	1	..	..	..	3	4	Wallgate	7	..	..	..	..	1	..	..	..	..	3	4	
Standishgate	9	..	..	..	..	..	..	..	1	..	..	..	1	2	Wood's Yard	7	..	..	..	..	..	..	..	..	..	..	1	1
Swinley Road	9	..	..	..	..	..	..	..	..	..	..	..	1	1	Wall Street	8	..	..	..	1	1	..	..	..	1	..	3	
Swinley Street	9	..	..	..	..	..	..	..	2	..	..	..	..	2	Whiteside Avenue.	8	..	..	..	..	..	..	..	..	..	1	1	
Swinley Lane.....	9	..	..	..	..	..	..	..	..	..	..	..	1	1	Woodhouse Lane ..	8	..	..	..	..	1	2	..	8	11			
Shaw Street	9	..	..	..	..	..	3	..	..	..	..	..	3	6	Wigan Lane	9	..	..	..	..	4	..	..	6	10			
Sandycroft Avenue	9	..	..	..	..	..	1	..	..	..	..	..	..	1	Walkden Avenue...	9	..	..	..	..	..	..	..	..	..	2	2	
Springfield Street ..	9	..	..	..	..	..	..	..	1	..	..	..	1	1	Whittaker's Yard ..	9	..	..	..	..	1	..	..	..	..	..	1	1
St. Ann's Square...	9	..	..	..	..	..	1	..	..	..	..	..	2	3	Worsley Terrace..	9	..	..	..	..	..	..	..	..	..	..	1	1
Saracen's Head Yd.	9	..	..	..	1	..	..	..	..	..	..	..	..	1	Wiend	10	..	..	..	..	..	..	..	..	..	..	1	1
Stirling Street	9	..	..	..	..	..	..	..	1	..	..	..	2	3	Wallgate	10	..	..	..	..	..	..	..	..	..	..	1	1
Somerville Road ..	9	..	..	..	..	..	..	..	..	..	1	..	..	1	Woodcock Street ..	10	..	..	..	..	..	..	..	..	..	..	1	1
Shelmerdine Street	10	..	..	..	..	..	1	1	..	..	..	..	1	2	WalthewHouseL'e	11	..	..	..	1	..	..	..	..	..	..	..	1
Spring Gardens	10	..	..	..	..	..	1	1	..	..	..	..	2	4	Wardley Street...	11	..	..	..	..	..	..	..	..	..	2	2	
Silver Street	11	..	..	..	..	..	..	..	..	1	..	..	1	1	White Street	11	..	..	..	..	..	..	..	..	1	..	1	
Sarginson Street...	12	..	..	..	..	..	..	..	1	..	..	..	2	3	Woodford Street ..	11	..	..	..	2	..	..	..	..	..	1	3	
Scot Lane.....	12	..	1	..	..	1	1	2	..	14	19	..	..	9	Warrington Road ..	12	..	..	..	4	..	1	7	12				
Soho Street	12	..	..	..	..	..	1	2	..	6	9	..	..	9	Westminster Street	12	..	..	..	..	1	..	..	..	..	1	2	
Stanley Street	12	..	..	..	..	..	..	..	..	..	1	..	..	1	Wilshaw Street...	12	..	..	..	..	..	..	1	1	2			
Sandon Street	13	..	..	..	..	..	1	1	..	..	..	..	..	2	Winstanley Street.	12	..	..	..	..	..	..	..	..	..	1	1	
Sydney Street	14	..	..	..	..	..	..	..	..	..	..	..	1	1	Wood Street	12	..	..	..	..	1	..	..	..	..	..	1	
Turner Street	2	..	..	..	..	..	..	..	..	..	..	..	1	1	Wesley Street	13	..	..	..	..	..	..	..	..	2	2		
Thompson Street ..	2	..	..	..	..	..	..	..	..	..	..	..	1	1	Warrington Road ..	14	..	..	1	..	..	..	1	14	17			
Teck Street	4	..	..	..	..	..	..	..	1	..	..	..	..	1	Willow Street.....	14	..	..	..	..	1	..	..	..	..	..	1	
Tipping Street ...	6	..	..	..	..	..	..	..	1	..	..	..	..	1	Yates Street.....	7	..	..	..	..	1	..	..	..		

PART II.

THE ZYMOTIC DISEASES.

CONSTITUTIONAL DISEASES.

LOCAL DISEASES.

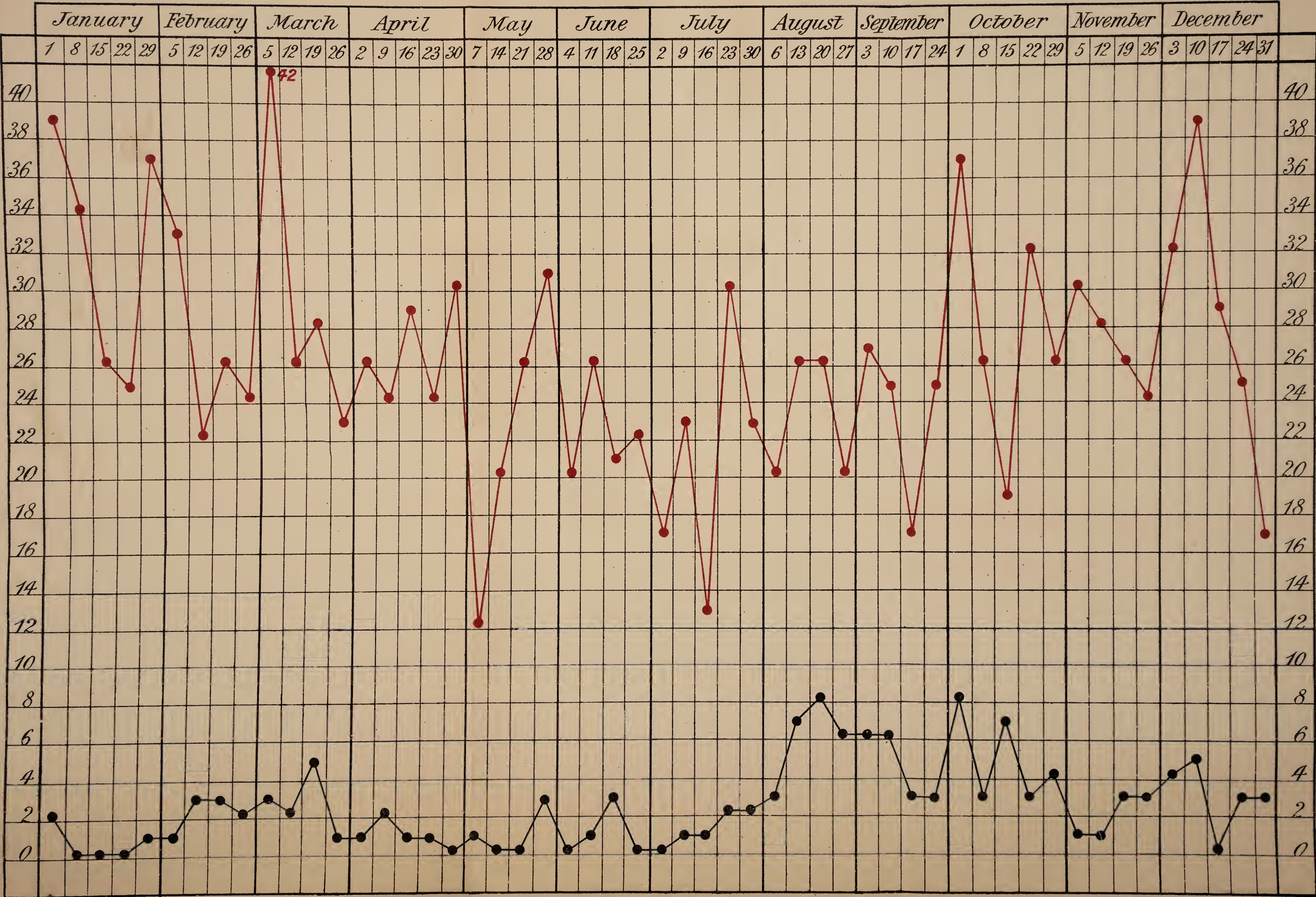
INQUESTS.

DEATH RETURNS CHART, 1.

1910.

All Causes (Red)

Zymotics. (Black)



CAUSES OF DEATH.

THE ZYMOTIC DISEASES.

The Mortality from the principal Zymotic Diseases, namely, Small Pox, Scarlet Fever, Measles, Whooping Cough, Typhus, Enteric Fever, Puerperal Fever, Diphtheria, and Diarrhœa, gives us a rate of 1·39 per 1,000 of the population, against 2·47 in 1909.

The deaths numbered 132.

The Zymotic rate, 1·39, is made up as follows :—

DEATHS PER 1,000.

	1910.	1909.
Small Pox .....	...	...
Scarlet Fever	·10	·17
Measles	·08	·87
Whooping Cough	·13	·50
Typhus .....	...	...
Enteric	·27	·19
Diphtheria	·08	·07
Diarrhœa	·66	·54
Puerperal	·021	·053
Erysipelas.....	·021	·053

The Zymotic rate during each of the four quarters was :—

	1910.	1909.
1st Quarter	·97	2·55
2nd ,,	·55	3·28
3rd ,,	2·03	2·66
4th ,,	1·88	1·45
...		

TABLE OF ZYMOTIC DISEASES.

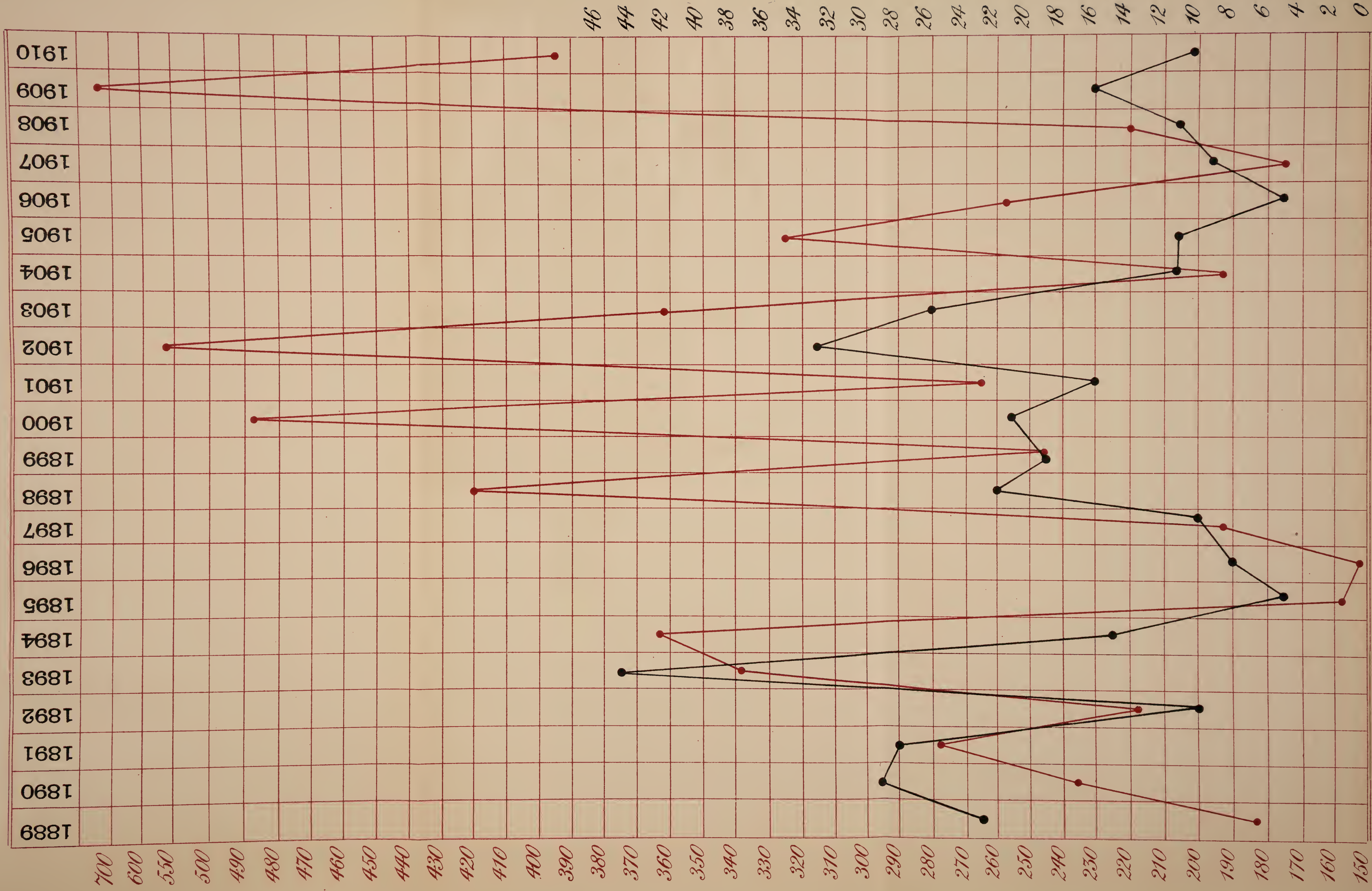
	Notified.	Died.	Case Mortality %.
Small Pox .....	...	...	...
Scarlet Fever	395	10	2·53
Enteric Fever	128	26	20·31
Diphtheria	38	8	21·05
Measles .....	...	8	...
Whooping Cough .....	...	13	...
Diarrhœa .....	...	63	...
Puerperal Fever	4	2	50·0
Erysipelas.....	70	2	2·85

LIST OF TOWNS IN WHICH CASES OF SMALL POX HAVE OCCURRED DURING THE
YEAR 1910.

Date.	Town.	No. of cases.			No. of cases.
Jan. 1—	Tottenham	1	Apr. 9—	Liverpool (P.S.).....	1
	Liverpool	2		Blyth (River) (P.S.)	1
	London	1	„ 16—	Nottingham	1
„ 8—	Tottenham	2		Wallasey	1
	Ealing	1		Hull and Goole (P.S.).....	1
	Liverpool	2	„ 23—	Birkenhead.....	2
	Heywood	2		Sheffield	2
	Kingston-on-Hull	1	„ 30—	Wallasey	3
	London	2		South Shields.....	2
	Tees (P.S.)	1		Tees (River) (P.S.)	2
	Port of London	12	May 7—	South Shields.....	1
„ 15—	Colchester	2	„ 14—	Wallasey	1
	Birkenhead.....	1		Hull and Goole (P.S.).....	2
	Liverpool	2		Tees (River) (P.S.)	1
	Tyne (P.S.)	1	„ 21—	Mansfield	1
„ 22—	Ealing	1		Cardiff	1
	Nottingham	1	„ 28—	Wallasey	1
	Birkenhead.....	2		South Shields.....	3
	Heywood	5	June 4—	South Shields.....	1
	Kingston-on-Hull	2	„ 11—	Coventry.....	1
	South Shields.....	1		South Shields.....	1
„ 29—	Colchester	2	„ 25—	London	2
	Nottingham	1	July 9—	Gosport and Alverstoke ...	1
	Kings Lynn	1		London	2
Feb. 5—	Birkenhead.....	2	„ 16—	Colne	1
	Liverpool	2		Port of London	1
	South Shields.....	1	„ 23—	Gosport and Alverstoke... 1	
„ 12—	Bristol	1		Liverpool	1
	Newport (Mon.).....	1	„ 30—	Colne	4
„ 19—	Nottingham	1	Aug. 6—	Colne	1
	South Shields.....	1	„ 13—	Colne	1
	Newcastle-on-Tyne	3	„ 20—	Colne	1
„ 26—	Nottingham	3		Liverpool (P.S.).....	1
Mar. 5—	Nottingham	1	Sep. 3—	Chesterfield	1
	Lancaster	1	„ 10—	Colne	1
	Southampton	1		Whitby	1
„ 19—	Bristol	1	„ 24—	Liverpool	1
	London	1	Oct. 8—	West Hartlepool	1
	Bristol (P.S.)	1		Hartlepool (P.S.).....	1
	Hull and Goole (P.S.)	1	„ 29—	Birmingham	1
	Port of London	1	Nov. 19—	Chadderton	1
„ 26—	Bristol (P.S.)	1	Dec. 3—	Chadderton	2
Apr. 2—	Blackburn	1	„ 10—	St. Helens (Lancashire) . 1	
	Sheffield	1	„ 17—	Grimsby	1
„ 9—	Sheffield	4	„ 24—	Chadderton	2
	Burnley.....	1	„ 31—	Oldham	2

SCARLET FEVER.

CHART :—Cases notified in red • Deaths in Black •



SCARLET FEVER.

Number of Notifications 395

Number of Deaths 10

Death-rate per 1,000 of Population 10

The number of notifications of this disease is, for 1910, 395, against 730 in 1909 ; and 10 deaths, against 16 in 1909.

	Notifications.	Removed to Sanatorium.	Deaths.
January	42	13	1
February	32	17	1
March	44	26	2
April	69	33	0
May	36	17	2
June	25	18	1
July	30	13	1
August	24	12	1
September	38	21	0
October	23	12	1
November.....	16	9	0
December	16	10	0
Total	395	201	10

The percentage of removals to Sanatorium has been 50·88, against 45·34 in 1909, and 62·72 in 1908.

The number of return cases during the year was 3, and the causation has been difficult to define. In some cases it appeared that the discharged patient got a coryza or cold, and thus infected the other child. We have had 10 deaths amongst those notified, 6 occurred in hospital, and these were severe cases when sent in ; this equals 6 in 50·88 per cent. of cases removed, and the remaining 4 cases were in the remaining 49·12 per cent. left at home, so we may take it that the fatality amongst those cases left to be nursed in better houses, with parental care and nursing, gives us a death-rate per cent. of 2·06, against 2·98 in hospital.

SCARLET FEVER—RETURN CASES, 1910.

1.—(22, Charles Street)—First case notified and removed to Sanatorium on December 6th, 1909 ; returned home on January 18th, 1910. Second case commenced on January 22nd, 1910 ; was notified and removed to Sanatorium on January 25th, 1910.

2.—(1, Wignall Street)—First case was notified and removed to Sanatorium on March 22nd, 1910 ; returned home on May 10th, 1910. Second case commenced on May 19th, 1910 ; was notified and removed to Sanatorium on May 21st, 1910.

3.—(8, Caunce Street)—First case was notified and removed to Sanatorium on August 13th, 1910 ; returned home on September 30th, 1910. Second case commenced on October 4th, 1910 ; was notified on October 7th, 1910.

BOROUGH OF WIGAN.

Notification of Disease adopted March, 1889. Hospital
opened 1891.

SCARLET FEVER.

Year.	Estim. Popula- tion.	Cases notifi'd.	Under five Years.	Deaths.	Cases in hospital.	Attacks per 1,000.	Deaths per 1,000.	Rem'v'ls per cent. per annum.
1889	53916	182	76	23	15	3·37	·42	8·24
1890	54440	235	163	29	83	4·31	·42	35·31
1891	55084	278	198	28	150	6·86	·50	39·68
1892	56040	218	117	10	79	3·89	·17	36·69
1893	57483	336	211	45	183	5·84	·78	54·49
1894	58529	361	215	15	200	6·16	·25	55·40
1895	59469	157	84	5	92	2·64	·08	58·59
1896	60235	151	83	8	43	2·50	·13	28·47
1897	61202	191	84	10	95	3·12	·16	49·74
1898	61697	420	220	22	189	6·80	·35	45·00
1899	62630	245	129	19	142	3·91	·30	57·95
1900	63440	485	159	21	211	7·63	·33	42·59
1901	60923	264	92	16	155	4·00	·26	58·70
1902	61827	557	190	33	246	9·00	·53	44·16
1903	62689	362	119	26	205	5·77	·41	56·63
1904	64249	191	88	11	130	2·97	·17	68·06
1905	88306	325	131	11	207	3·68	·12	63·69
1906	89342	256	96	5	126	2·87	·055	49·21
1907	90765	175	70	9	93	1·92	·099	53·14
1908	92114	220	69	11	138	2·38	·11	62·72
1909	93263	730	207	16	331	7·82	·17	45·34
1910	94654	395	110	10	201	4·17	·10	50·88

AGE INCIDENCE OF SCARLET FEVER.

	MONTHS.				YEARS.																Total.
	1-3	3-6	6-9	9-12	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-15	15-20	20 & over					
Ages	0	0	3	1	14	20	31	41	61	51	43	21	12	68	19	10	395				
Total Number of Notifications	4				106				188				97								
Under 1 year																					
From 1 to 5 years																					
" 5 to 10 years																					
Over 10 years																					
Sickness rate per 1,000 of the Population at each age	0	0	.031	.010	.14	.21	.32	.43	.64	.53	.45	.22	.12	.71	.20	.10	4.17				
Deaths at different ages	0	0	0	1	0	0	2	1	2	2	1	0	0	0	0	1	10				
Percentage Mortality	0	0	0	100.0	0	0	6.4	2.4	3.2	3.9	2.3	0	0	0	0	10.0	2.53				
All under 1 year	1																				

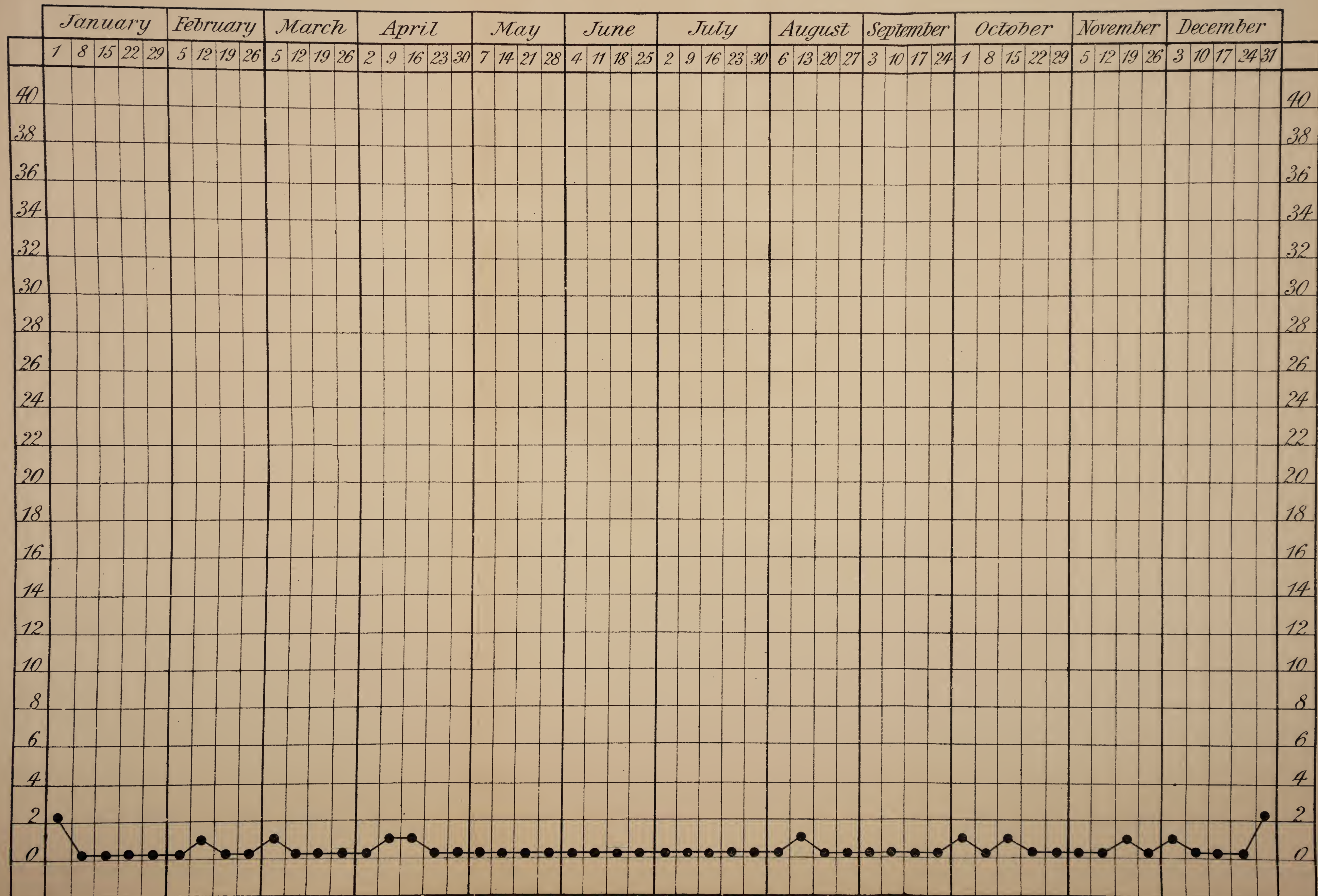
1910.

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DEATH RETURNS CHART, 3.

1910.

Whooping Cough. (Black)



MEASLES.

The deaths numbered 8, or a rate of .08 per 1,000 of the population.

1910.	Deaths in 1910.	Deaths in 1909.
January .....	...	...
February .....	...	2
March .....	...	25
April	1	24
May .....	...	17
June	2	12
July .....	...	1
August	2	1
September .....	...	...
October	2	...
November.....	...	...
December	1	...
TOTAL	8	82

WHOOPING COUGH.

The number of deaths from Whooping Cough is 13, against 47 in 1909, and 24 in 1908. The number is shown in the following table :—

1910.	Deaths in 1910.	Deaths in 1909.
January	2	4
February	2	12
March .....	...	7
April	2	5
May .....	...	3
June .....	...	3
July .....	...	3
August	1	3
September	1	5
October	1	...
November.....	1	2
December	3	...
TOTAL	13	47

The deaths were less in 1910 by 34. It is a very dangerous disease owing to the lung affections which supervene, and is highly infectious, but it is difficult to persuade mothers of its seriousness.

TYPHUS FEVER.

I am pleased to say we have had no notifications of this disease during the year.

ENTERIC FEVER.

Number of Notifications	...	...	...	...	128
Number of Deaths	...	...	...	...	26
Mortality per 1,000 of population	...	...	...	...	.27
Removed to Sanatorium	...	...	...	...	90

We have for 1910, 128 notifications, against 93 in 1909, and 103 in 1908. A few of the cases removed to the Sanatorium turned out to be cases of other febrile diseases.

The number of deaths were 26, or 20·31 per cent. of the cases notified, against a rate of 19·35 per cent. in 1909, and 25·24 per cent. in 1908.

	Removed to Sanatorium
January	1
February	9
March	4
April	5
May.....	3
June	3
July	6
August	2
September	9
October	6
November	22
December	20
	—
	90

We had 4 specimens of blood examined at the Thompson Yates Laboratory, Liverpool, with the following result :—Positive reaction, 2; Negative reaction, 2.

The mortality rate is higher. We have 26 deaths in 128 cases, a rate of 20·31 per cent.

I here give the weekly number of Notifications, January 1st to December 31st.

WEEKLY NOTIFICATIONS FOR 1910.

January 15th	1	July 30th	2
February 5th	6	August 6th	2
„ 12th	5	September 10th	1
„ 19th	2	„ 17th	6
„ 26th	1	„ 24th	1
March 5th	2	October 1st	1
„ 12th	3	„ 8th	2
„ 26th	1	„ 15th	2
April 2nd	2	„ 29th	3
„ 9th	1	November 5th	4
„ 16th	1	„ 12th	12
„ 23rd	1	„ 19th	8
May 14th	1	„ 26th	2
„ 28th	1	December 3rd	7
June 4th	1	„ 10th	18
„ 11th	2	„ 17th	5
„ 18th	1	„ 24th	7
July 9th	2	„ 31st	9
„ 23rd	2		

ENTERIC FEVER.

1910.	Notification.		Deaths.	
	1910.	1909.	1910.	1909.
January	2	11	...	4
February	13	2	3	1
March	6	8	3	...
April	5	7	1	2
May	3	11	...	1
June	3	5	...	...
July	6	1	...	...
August	2	3	1	1
September	9	19	2	2
October	8	7	3	2
November	30	12	7	1
December	41	7	6	4
TOTAL	128	93	26	18

INCIDENCE OF ENTERIC FEVER FOR FIFTEEN YEARS.

Year.	Notified Cases.	Deaths from Enteric.	Enteric Fever Rate per 1,000.
1896	101	14	·23
1897	63	10	·16
1898	92	17	·27
1899	174	25	·40
1900	104	19	·29
1901	71	12	·19
1902	76	14	·22
1903	51	11	·17
1904	56	16	·24
1905	133	36	·40
1906	138	27	·30
1907	107	22	·24
1908	103	26	·28
1909	93	18	·19
1910	128	26	·27

The age incidence shows the greatest number of cases have occurred in persons over 30 years, and the next larger in cases from 5-9.

AGE INCIDENCE.
YEARS.

1—4	5—9	10—14	15—19	20—24	25—29	Over 30
5	27	20	18	14	15	29

Total Cases, 128.

Houses in which cases have occurred with :—

Privy Midden.	Pails.	Waste Water Closets.	Water Closets.	Water and Waste Water Closet.	Water and Pail Closet.
45	47	3	30	1	2

Number of privy middens in	Wigan	.....	8
„	„	Pemberton	..... 1716
„	„	ashpits	„ 79
„	„	cesspools	„ 8
„	„	„	in Wigan 2
„	„	ashpits	„ 44
„	„	wagons	„ 16

STREET LIST OF DEATHS FROM ENTERIC FEVER.

<i>Wigan.</i>		<i>Pemberton.</i>	
Atherton Street	1	Albert Street	1
Cherry Croft	1	Back Sydney Street	2
Clayton Street	2	Carlton Street	1
Diggle Street	1	Ellesmere Road	1
Frog Lane	1	Enfield Street	1
Hodson Street	1	Grosvenor Street	1
Lyon Street.....	1	Ormskirk Road	2
Millgate.....	1	Scot Lane	1
Prescott Street	2		
Stanley Street	1		
Victoria Street.....	1		
Warrington Lane	1		
	16		10
Estimated Population for Year ending 1910, 69,855		Estimated Population for Year ending 1910, 25,105	

ENTERIC FEVER.

Cases in Houses with Insanitary Conditions and Surroundings	8
Cases in Houses with other Defects	37
Cases in Houses where no Defects were found	82
Cases in Public Institutions	1
	<u>128</u>

LIST OF STREETS IN WIGAN WHERE CASES OF ENTERIC FEVER
HAVE OCCURRED.

	1910.	1909.		1910.	1909.
Atherton Street	1	...	Kearsley Street	1	...
Bankes Street	1	...	Kendal Street	1	...
Belvoir Street	1	...	Lyon Street....	4	...
Bottling Wood	1	...	Meadow Street	1	...
Byrom Street.....	6	4	Melverley Street	2	...
Chancery Street	1	...	Millgate.....	2	...
Cherry Croft	1	...	Platt Lane	5	...
Clayton Street	3	2	Poolstock	1	...
Darlington Street	1	...	Prescott Street	5	...
" East.....	1	3	Ratcliffe Street	1	1
Diggle Street	1	...	Shared Street.....	1	...
Fitzadam Street	1	...	Sharp Street	1	1
Frog Lane	1	...	Stanley Street	1	1
Gidlow Lane	5	3	Swan Terrace.....	1	...
Great George Street	1	2	Swann Street	1	2
Hardybutts	1	3	Victoria Street.....	2	...
Hill Street	1	...	Wallgate	1	...
Hodson Street	1	...	Warnford Street	1	...
Infirmary	1	...	Whelley	2	1
Ironmonger Lane	1	...	Wigan Lane	3	...
Jockey Terrace	1	...			

LIST OF STREETS IN PEMBERTON WHERE CASES OF ENTERIC
FEVER HAVE OCCURRED.

	1910.	1909.		1910.	1909.
Albert Street	4	1	Gower Street	1	...
Argyle Street	1	1	Grosvenor Street	1	...
Bentinck Street	1	...	Marsh Street	1	...
Billinge Road	1	...	Northumberland Street.	1	...
Back Sydney Street	7	...	Ormskirk Road	8	...
Brackley Street	2	...	Pemberton Valley	1	...
Brindley Street	1	...	Poolstock Lane	3	9
California Street	1	...	School Terrace.....	1	...
Carlton Street	1	1	Scot Lane	1	1
Cawdor Street	1	...	Thompson Street	1	...
Chatsworth Street.....	1	...	Tunstall Lane	2	...
Clapgate Lane	1	...	Victoria Street .	1	...
Ellesmere Road	1	...	Warrington Road	8	1
Enfield Street	4	1	Wesley Street	1	...
Factory Street	1	...			

DIARRHŒA.

Number of Deaths	63	In 1909.....	51
Mortality of Population	·66	„	·54

We had a rate of ·54 in 1909, but we have this year only a rate of ·66.

AGE INCIDENCE, 1910.

Month.	Deaths.	0-1 Year.	1-5 Years.	Over 5 Yrs.
January .....	...	...	...	...
February .....	...	...	...	...
March	3	2	1	...
April .....	...	...	...	...
May	1	1	...	...
June	1	...	1	...
July	6	4	2	...
August	22	16	6	...
September	17	10	7	...
October	11	7	2	2
November.....	1	...	1	...
December	1	...	1	...
TOTAL	63	40	21	2

It will be seen that August and September and October give us the greatest number of deaths, and, as in previous years, these are chiefly in children under the age of one year.

The Lady Health Visitor (Miss Alldritt) gives the following report of investigations made :—

PARTICULARS *Re* DEATHS FROM DIARRHŒA.

Sex	Age.	Address.	How Fed.	Milk.	Previous Deaths from Dia'r'hœa	W.C. Accom	Yard.	Remarks.
M.	2 months	2, Barton's Terrace	Bottle. T.	Condensed .	...	Pail ...	Flagged	Filthy house.
F.	4 months	116, Whelley	Bottle. T.	Condensed .	...	W.C. .	Flagged	Inadequate flush.
F.	1.1/12 months.....	115, Woodhouse Lane	Bottle. B.	Cow's.....	...	Pail ...	Flagged	Choked gully in wash-house.
M.	3/12	32, Wallace Lane	Bottle. B.	Condensed .	...	W.C. .	Flagged	Defective flush.
F.	8/12	51, Miry Lane	Bottle. T.	Condensed .	...	Pail ...	Flagged	Illegitimate—premature.
F.	5/12	4, Shelmerdine Street.....	Bottle. T.	Cow's.....	...	Pail ...	Flagged	
F.	1.4/12	2, Hartley's Yard (P.).....	Ordinary.	...	...	Privy	Flagged	Illegitimate. Insanitary prem's
M.	10/12	1, Latham's Yd., Bridge St.	Breast ..	...	3	Pail ...	Flagged	Single house. No through vent.
F.	1.8/12	18, Ormandy's Houses	Ordinary.	...	...	Pail ...	Part flagged	When visited under N.B.A.—
F.	2/12	38, Alfred Street (P.)	Bottle. T.	Condensed .	1	Privy	Setts	Bottle found in filthy and sour condition.
M.	28 days.....	60, Bentinck Street	Bottle. B.	Cow's.....	...	Privy	Part flagged	
F.	3/12 months.....	36, Northumberland Street	Bottle. B.	Cow's.....	...	Privy	Part flagged	
F.	1.9/12	44, Great George Street.....	Ordinary.	...	...	Pail ...	Part flagged	
M.	11/12	54, Prescott Street	Bottle. B.	Cow's.....	...	Pail ...	Paved	
M.	10/12	5, Vere Street	Breast ...	...	...	Pail ...	Paved	
M.	1/12	9, Alexandra Street (P.) ...	Bottle. B.	Cow's.....	...	Privy	Unflagged .	Bad smell from midden.
M.	1.4/12	31, Scot Lane	Ordinary.	...	...	Privy	Flagged	Teething diarrhoea.
M.	1.2/12	56, York Street	Bottle. B.	Horlick's M.	...	Pail ...	Setts	Weak from birth.
M.	1.3/12	29, Victoria Street	Breast ...	...	...	Pail ...	Flagged	
F.	2.1/12	49, Princess Street	Ordinary.	...	...	Pail ...	Flagged	Yardage—filthy condition.
F.	5/12	9, Princess Street	Breast ...	...	...	Pail ...	Unflagged .	Single house.
M.	6/12	66, Boyswell Lane	Bottle. T.	Condensed .	1	Pail ...	Setts	Single house.
M.	10/12	42, Platt Lane	Bottle. B.	Condensed .	...	Pail ...	Part flagged	Illegitimate.
F.	2/12	8, Kendrick Street	Bottle. B.	Condensed .	...	Pail ...	Flagged	
F.	1.5/12	10, Seed Street	„ T. & B.	Sterilized ...	...	Pail ...	Unflagged .	

PARTICULARS *RE* DEATHS FROM DIARRHOEA—*Continued.*

Sex	Age.	Address.	How Fed.	Milk.	Previous Deaths from Dia'r'hoea	W.C. Accom	Yard.	Remarks.
F.	9/12 months.....	32, Miry Lane	Bottle. B.	Sterilized ...	1	W.C. .	Flagged	All W.C.'s in yard choked.
F.	1-1/12	2, Herbert Street	Bottle. B.	Condensed .	...	Pail ...	Flagged	
M.	6/12	68, Soho Street	Bottle. B.	Condensed .	...	Privy	Flagged	
M.	3/12	13, Alexandra Street	Bottle. B.	Crosse's food	...	Privy	Part flagged	
M.	4/12	21, Bridgewater Street.....	Bottle. B.	Cow's.....	2	Privy	Paved	Yardage—filthy condition.
F.	1-4/12	4, Atherton Street	Ordinary.	...	...	Privy	Paved	
M.	7/12	1, Lowe Street.....	Bottle. T.	Cow's.....	...	Pail ...	Flagged	Drain choked.
M.	4/12	5, Lowe Street.....	Bottle. T.	Cow's.....	1	Pail ...	Flagged	
F.	6/12	23, Golborne Street	Bottle. B.	Condensed .	1	Pail ...	Setts	
M.	5/12	10, Florence Street	Mix. M.B.	Condensed .	...	Pail ...	Part flagged	
F.	5/12	70, Hardybutts	Bottle. T.	Condensed .	1	Pail ...	Part flagged	
F.	4 years	8, Marsh Street	Ordinary.	...	...	W.C. .	Flagged	
F.	1-2/12 months.....	41, Walmer Street	Bottle. B.	Condensed .	1	Pail ...	Flagged	
F.	9/12	2, Alliance Street	Bottle. B.	Condensed .	...	W.C. .	Concrete ...	
M.	1-1/12	297, Billinge Road	Breast ...	...	...	Privy	Unpaved ...	
F.	8/12	102, Beech Hill Lane	Bottle. T.	Cow's.....	...	Pail ...	Flagged	
M.	1-3/12	9, Ball Street	Ordinary.	...	...	Pail ...	Part flagged	
F.	1-1/12	8, Spring Gardens	Ordinary.	...	...	Pail ...	Flagged	Illegitimate. Three drains in yard choked.
M.	28 days	27, Douglas Street	Bottle. B.	Cow's.....	...	Pail ...	Flagged	Illegitimate.
F.	2/12 months.....	5, Chapel Street (P.)	Mixed. B.	Cow's.....	...	W.C. .	Flagged	
F.	4/12	15, Woodford Street (P.)....	B. G.T.B.	Condensed .	2	Privy	Part flagged	
M.	8/12	17, Woodford Street (P.)....	Bottle. T.	Condensed .	...	Privy	Part flagged	Delicate from birth.
F.	8/12	2, Sandon Street (P.)	Bottle. T.	Condensed .	...	Privy	Flagged	Delicate from birth.
F.	6/12	46, Queen Street (P.)	Mixed. B.	Cow's.....	...	Privy	Flagged	
F.	9/12	58, Tunstall Lane (P.)	Bottle. B.	Cow and Condensed.	...	Privy	Part flagged	

PARTICULARS RE DEATHS FROM DIARRHOEA—Continued.

Sex	Age.	Address.	How Fed.	Milk.	Previous Deaths from Dia'rhea	W.C. Accom	Yard.	Remarks.
M.	1-10/12 months ...	19, Douglas Street	Ordinary.	Pail ...	Flagged	Single house.
F.	3/12 "	13, Rigby's Yard	Mix. sp'n. Bottle. T.	Neaves .....	...	Pail ...	Part flagged
M.	4/12 "	11, Vauxhall Road		Sterilized ...	...	Waste water	Flagged
M.	2/12 "	5, Seed Street	Spoon	Cow's.....	...	Pail ...	Part flagged	
F.	2/12 "	8, Hen Street.....	Bottle. B.	Condensed .	...	Pail ...	Unflagged .
M.	2/12 "	12, Whelley	Mixed. T.	Condensed .	...	Waste water	Flagged
F.	2 years	14, Herbert Street	Ordinary.	...	1	Pail ...	Flagged	Dirty yard.
F.	1-3/12 months.....	11, Mill Street	Ordinary.	...	...	Pail ...	Flagged
M.	43 years	22, Taylor Street	Ordinary.	...	...	Pail ...	Flagged
M.	1-3/12 months.....	19, Hopwood Street	Ordinary.	...	...	Privy	Flagged
F.	50 years	7, Princess Street	Ordinary.	...	...	Pail ...	Unpaved ...
F.	1-9/12 months.....	17, Wellington Street	Bottle. T.	Cow's.....	...	Pail ...	Flagged	

T. = Tube Bottle. G.T.B. = Glass Tube Bottle.
B. = Boat Bottle. M.B. = Medicine Bottle.

SUMMARY.

HOW FED.	No.
Breast	5
Bottle—Condensed	7
,, Cows	12
,, Condensed and Barley Water	1
Ordinary	15
Spoon—Cow's	1
Bottle—Horlick's Malted	1
,, Sterilized.....	3
,, Patent Foods.....	1
Mixed. Condensed—Bottle	2
,, Cows ,,	2
,, Neave's—Spoon.....	1
Bottle—Cow and Condensed.....	1

STREETS IN WIGAN FROM WHICH DEATHS FROM DIARRHŒA HAVE
OCCURRED.

	1910.	1909.		1910.	1909.
Alliance Street.....	1	...	Platt Lane	1	...
Ball Street	1	...	Prescott Street	1	...
Barton's Terrace	1	...	Princess Street	3	...
Beech Hill Lane	1	...	Scholes	1	...
Boyswell Lane	1	...	Seed street	2	1
Bridge Street	1	...	Shelmerdine Street	1	...
Douglas Street.....	2	...	Spring Gardens	1	...
Florence Street	1	...	Taylor Street	1	...
Golborne Street	1	...	Vauxhall Road	1	...
Great George Street	1	...	Vere Street.....	1	...
Hardybutts	1	1	Victoria Street.....	1	...
Hen Street	1	...	Wallace Lane.....	1	...
Herbert Street	2	...	Walmer Street	1	...
Kendrick Street	1	...	Wellington Street	1	...
Low Street	2	...	Whelley	2	1
Mill Street	1	...	Woodhouse Lane	1	...
Miry Lane	2	...	York Street	1	...
Ormandy's Houses	1	1			

STREETS IN PEMBERTON IN WHICH DEATHS FROM DIARRHŒA HAVE
OCCURRED.

	1910.	1909.		1910.	1909.
Alexandra Street.....	2	...	Hopwood Street	1	...
Alfred Street	1	1	Marsh Street	1	...
Atherton Street	1	...	Northumberland Street.	1	...
Bentinck Street	1	...	Queen Street	1	1
Billinge Road	1	...	Sandon Street	1	...
Bridgewater Street	1	...	Scot Lane	1	...
Chapel Street	1	...	Soho Street	1	...
Fleet Street	1	...	Tunstall Lane	1	1
Harrison Street	1	...	Woodford Street	2	...

DIPHTHERIA.

Number of Notifications	38
Number of Deaths, including Croup.....	8
Mortality per 1,000 of Population	·08

We have had a slight increase in the number of cases notified, namely, 38 against 34 in 1909, and the mortality is ·08 per 1,000 of population, against ·07. The following table shows the number of cases notified, and the number of deaths :—

1910.	Notified.	Deaths.
January	5	...
February	7	4
March	3	2
April .....	...	...
May	3	...
June	2	...
July	1	...
August	2	1
September	3	...
October	6	...
November.....	4	1
December	2	...
TOTAL	38	8

The following is the result of the examinations bacteriologically made at the Thompson Yates Laboratory :—

- Number of swabs, 8.
- Staphylococci present in 4.
- Streptococci present in 1.
- Diphtheria Bacilli present in 3.

DIPHTHERIA CASES, 1910.

Cases in Houses with Insanitary Surroundings	3
„ Defects	7
„ No Defects	28

ERYSIPELAS.

Number of Cases Notified.....	70
Number of Deaths	2
Mortality per 1,000 of Population	·021

We have a smaller number of Notifications, and we have 2 deaths.

Cases in Houses with Insanitary Surroundings	4
„ Defects	4
„ No Defects	62

PUERPERAL FEVER.

Number of Cases Notified.....	4
Number of Deaths	2
Mortality per 1,000 of Population	·021

We have a decrease in the number of cases notified, and a decrease in the death-rate. None of the cases appear to have been communicated, and everything was done to prevent communication of the disease to others.

SANATORIUM.

The arrangements made in the nursing department have been satisfactory, and the accommodation ample.

The Doecker Hospital is sufficient for the Small Pox cases, and the improvements made, on its removal from the old site, have been of great advantage.

During the year there were 37 cases admitted and discharged at the Pemberton Hospital—Scarlet Fever 37.

The number of infectious cases notified compulsorily is as follows :—

	Notifications.	Removed to Sanatorium.	Died in Sanatorium.
Small Pox .....	...	...	...
Typhus .....	...	...	...
Scarlet Fever	395	203 2*	6
Enteric	128	98 8*	16 1*
Diphtheria	38	...	...
Puerperal Fever	4	...	...
Cholera .....	...	...	...
Membraneous Croup.....	...	...	...
Erysipelas.....	70	...	...
Other.....	...	15 2*	2
TOTAL	635	316	24

In the Sanatorium on December 31st, 1910, there were 35 patients, namely, Scarlet Fever 15, Enteric Fever 16, others 4.

* Cases from Outside Districts inclusive.

	Small Pox.	Scarlet.	Enteric.	Others.	Total.
In-patients, Jan. 1, 1910	...	34	3	6	43
Admitted in 1910.....	...	203	98	15	316
Discharged „	216	69	15	300
Died „	6	16	2	24
In-patients, Jan. 1, 1911	...	15	16	4	35

The number of deaths in the Sanatorium was 24 ; 6 died from Scarlet Fever and 16 from Enteric, and 2 “ other ” diseases.

During the year there were 300 patients discharged, and 24 died (Wigan), and 37 patients discharged from Pemberton, making a total of 361.

The total cost of administration of the Sanatoria (Wigan and Pemberton), 361 patients, is as follows :—

	£	s.	d.
Master, Matron and Nurses' Wages	543	1	8
Porters' Wages	202	16	0
Food	992	12	0 $\frac{3}{4}$
Stimulants	145	15	5
Crockery, Ironmongery, Repairs, &c.	44	12	0
Coal, Coke and Carting	213	7	8
Medical Requisites	18	14	1
Drapery, &c.	57	19	7
Gas, Water, Electricity and Repairs	251	5	3
Turps, Paint, Soap, &c.	92	5	7
Rent, Rate and Insurance	159	18	2
Sundries	167	2	7 $\frac{1}{2}$
Medical Superintendent.....	150	0	0
Clerk	20	0	0
	£3,059	10	1 $\frac{1}{4}$

SANATORIUM STAFF.

Master	2 Ward Maids.
House Keeper.	1 Housemaid-Waitress.
5 Nurses.	1 Kitchenmaid.
5 Probationers.	1 Scullery Maid.
1 Laundress.	1 Porter and Gardener.
2 Assistant Laundresses.	1 Assistant Gardener.

PEMBERTON SANATORIUM.

1 Nurse.	1 Temporary Nurse.	1 Caretaker.
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WIGAN SANATORIUM.—TABLE OF ADMISSIONS AND DISCHARGES FOR 1910.

1910.	Admitted.					Discharged.					Died.							
	Small- pox.	Scarlet fever.	En- teric.	Ty- phus.	Oth'rs.	Total.	Small- pox.	Scarlet fever.	En- teric.	Ty- phus.	Oth'rs.	Total.	Small- pox.	Scarlet fever.	En- teric.	Ty- phus.	Oth'rs.	Total.
January ...	0	13	1	0	1	15	0	28	1	0	3	32	0	0	0	0	0	0
February .	0	17	10	0	1	28	0	14	1	0	2	17	0	1	1	0	0	2
March	0	26	5	0	1	32	0	18	6	0	0	24	0	0	2	0	0	2
April	0	33	5	0	2	40	0	20	7	0	1	28	0	0	1	0	0	1
May	0	17	3	0	3	23	0	23	7	0	1	31	0	2	0	0	0	2
June	0	18	3	0	5	26	0	23	0	0	3	26	0	1	0	0	2	3
July	0	13	6	0	0	19	0	13	4	0	2	19	0	1	0	0	0	1
August	0	12	4	0	1	17	0	23	5	0	0	28	0	0	1	0	0	1
September	0	22	11	0	0	33	0	8	6	0	0	14	0	0	2	0	0	2
October ...	0	12	7	0	1	20	0	16	7	0	3	26	0	1	2	0	0	3
November.	0	10	23	0	0	33	0	19	3	0	0	22	0	0	3	0	0	3
December	0	10	20	0	0	30	0	11	22	0	0	33	0	0	4	0	0	4
TOTAL ...	0	203	98	0	15	316	0	216	69	0	15	300	0	6	16	0	2	24

2 Cases of Scarlet Fever, 8 Enteric, and 2 others were removed from outside Districts to the Sanatorium, and are included in the Table.

CONSTITUTIONAL DISEASES.

TUBERCULOUS DISEASES.

Under the heading of Tuberculous Diseases we include deaths from Consumptive Diseases, such as Phthisis, Pulmonalis, Tabes Mesenterica, Tubercular Meningitis, Wasting Diseases of Infants (Marasmus), and other Tubercular affections.

The number of deaths from Phthisis is 66, against 68 in 1909, and 75 in 1908. The number of deaths from other Tubercular affections is 34, against 55 in 1909, and 77 in 1908.

From Wasting Diseases of Infants we have 58 deaths, against 50 in 1909.

The rates are as follows :—

Phthisis Pulmonalis	·69	per 1,000 of population.
Other Tubercular Diseases	·35	„
Wasting Diseases of Infants.....	·60	„

If taken together as Tuberculous affections we have 158 deaths, or a rate of 1·66 per 1,000 of population.

PULMONARY, PHTHISIS AND TUBERCULOUS DISEASES BUT NOT INCLUDING MARASMUS.

The deaths occurred in the following Wards :—

St. George Ward	2
Lindsay Ward	5
St. Catharine Ward	15
St. Patrick Ward	12
St. Thomas Ward.....	6
Poolstock Ward	6
Victoria Ward	7
St. Andrew Ward	7
Swinley Ward	4
All Saints Ward	—
West Pemberton Ward	8
North Pemberton Ward	13
Central Pemberton Ward	5
South Pemberton Ward	3
In Union Workhouse, but belonging to Wigan	7

PHTHISIS CASES TREATED IN DOECKER
IN 1910.

Case.	Patient.	Age.	Days in.	Where from.	Result.
1	B.G.	34	406	Wigan	Much Improved.
2	W.H.P.	...	154	„	Relieved.
3	J.C.	31	108	„	Cured.
4	T.M.	39	42	„	Relieved.
5	J.W.	...	62	„	„
6	C.O'N.	...	275	„	Much Improved.
7	P.C.	38	115	„	Relieved.
8	D.L.	19	25	„	Unrelieved.
9	W.S.	40	272	Ince	Left on own accord—Improved.
10	J.G.	24	101	Wigan	„ Improved.
11	P.D.	29	51	Ince	„ Relieved.
12	W.D.	36	156	Wigan	In <i>statu quo</i> .

DEATHS AND RATES FROM PHTHISIS FOR
PAST YEARS.

Year.	No. of Deaths.	Rate per 1,000.
1896	66	1·09
1897	69	1·14
1898	59	·93
1899	59	·94
1900	69	1·09
1901	73	1·18
1902	55	·89
1903	74	1·1
1904	70	1·08
1905	92	1·04
1906	108	1·20
1907	84	·92
1908	75	·81
1909	68	·72
1910	66	·69

RHEUMATISM.

Rheumatism caused 10 deaths, against 17 deaths in 1909, and 13 in 1908, and we have 60 deaths from heart affections, against 99 in 1909, and 61 in 1908.

LOCAL DISEASES.

Respiratory Diseases, such as Pneumonia and Bronchitis, caused 316 deaths, against 458 in 1909. Pneumonia caused 173 against 292; and Bronchitis caused 143, against 166.

INQUESTS AND UNCERTIFIED DEATHS.

The number of Inquests for 1910 is 126, against 151 for 1909, and 156 in 1908, and the following verdicts have been recorded :—

1.	Natural causes	37
2.	Accidents—burnt	13
	,, scalded	3
	,, colliery	17
	,, fall downstairs	2
	,, drowned	3
	,, falls	4
	,, railway	4
	,, machinery	1
	,, mill.....	2
	,, others.....	2
3.	Suicides—hanging	2
	,, railway	1
	,, poison	3
	,, cut throat	1
	,, drowning	3
4.	Others	27
5.	Murder—kicking	1
		<hr/>
		126

There was 1 uncertified death in 1910, against 2 in 1909, and 2 in 1908.

Premature Birth 1

PART III.

General Sanitary Work.



FACTORY AND WORKSHOP ACT, 1901

SHOP HOURS ACTS, 1892 TO 1905

SHOP HOURS ACT, 1904, CLOSING ORDER

MEAT INSPECTION AND SLAUGHTER HOUSES

DARIES, COWSHEDS AND MILKSHOPS ORDER, 1885 AND 1886

WATER SUPPLY AND RAINFALL

BLACK SMOKE NUISANCE

PROPERTY UNFIT FOR HUMAN HABITATION

UNPAVED YARDS AND PASSAGES

BOROUGH SURVEYOR'S DEPARTMENT

SCAVENGING

LADY HEALTH VISITOR'S REPORT

MIDWIVES ACT, 1902

NOTIFICATION OF BIRTHS ACT, 1907

EDUCATION ACT, 1902, 1904

SCHOOL MEDICAL OFFICERS' REPORT

PUBLIC ANALYST REPORT

FACTORY AND WORKSHOP ACT, 1901.

The Workshops have been regularly and systematically visited by Inspector Bishop, also the Factories, on receipt of report from H.M. Inspectors. I subjoin Inspector Bishop's report on the same, also his report on the Shop Hours Acts of 1892-1905, and Closing Order, 1904.

1.—INSPECTION.

Premises.	No. of Inspections	No. of written Notices.
Factories (including Factory Laundries)	170	3
Workshops (including Workshop Laundries).....	690	16
Workplaces .....	...	...
TOTAL	860	19

2.—DEFECTS FOUND.

Particulars.	No. of defects found.	No. of defects remedied.
<i>Nuisances under Public Health Acts :—</i>		
Want of cleanliness	27	23
Want of ventilation	1	1
Overcrowding .....	...	...
Want of drainage of floors .....	...	...
Other nuisances.....	16	14
Sanitary { insufficient .....	...	...
Accommo- { unsuitable or defective	4	4
dation { not separate for sexes	1	1
<i>Offences under the Factory and Workshop Act :—</i>		
Illegal occupation of underground bakehouse	1	1
Breach of special sanitary requirements for bakehouses	73	71
Other offences	15	14
TOTAL	138	129

3.—HOME WORK.

Nature of Work.	OUTWORKERS' LISTS, SECTION 107.						
	Lists received from employers.				No. of addresses of out-workers received from other Councils.	No. of addresses of out-workers forwarded to other Councils.	Notices served on occupiers as to keeping or sending Lists.
	Twice in the year.		Once in the year.				
	Lists.	Out-wkrs.	Lists.	Out-wkrs.			
WEARING APPAREL:							
(1) Making, &c.	52	138	4	8	3	12	24
(2) Cleaning, &c. ...	...	...	...	...	...	...	...

Number of Inspections of Outworkers' Premises, 73.

4.—REGISTERED WORKSHOPS.

Workshops on the Register (s. 131) at the end of the year.	Number.
Workshops	432
Bakehouses	143
Domestic Workshops (not Outworkers)	39
Total Number of Workshops on Register.....	614

5.—OTHER MATTERS.

Class.	Number.
<i>Matters notified to H.M. Inspector of Factories :—</i>	
Failure to affix Abstract of the Factory and Workshop Act (s. 133)...	13
Notified by H.M. Inspector	6
Report (of action taken) sent to H.M. Inspector	6
Other.....	5
<i>Underground Bakehouses (s. 101) :—</i>	
Certificates granted during the year .....	...
In use at the end of the year	8

LIST OF WORKHOPS UNDER THE FACTORY AND WORKSHOP ACT, 1901.

No.	Address.	Trade.	No.	Address.	Trade.
1—9,	Standishgate	Tailor.	53—17-23,	Standishgate	Dressmaker.
2—114,	Standishgate	,,	54—7,	Standishgate	,,
3—55,	Standishgate	,,	55—11,	Standishgate	,,
4—42,	Standishgate	,,	56—	Church Street.....	,,
5—	Church Street.....	,,	57—24,	Baron Street	,,
6—37,	New Market Street....	,,	58—12,	Wigan Lane	,,
7—5,	New Market Street.....	,,	59—138,	Wigan Lane	,,
8—22,	Bold Street	,,	60—23,	Wigan Lane	,,
9—	Clifton Street	,,	61—5,	Dorning Street	,,
10—45a,	Wigan Lane	,,	62—185,	Dorning Street .	,,
11—57,	Mesnes Street	,,	63—41,	Richmond Street	,,
12—71,	Mesnes Street	,,	64—7,	Library Street	,,
13—6,	Library Street	,,	65—36,	Dicconson Street	,,
14—10,	Library Street	,,	66—3,	Dicconson Terrace	,,
15—55,	Library Street	,,	67—8,	Market Place	,,
16—30,	Library Street	,,	68—36,	Swan Meadow Rd.	,,
17—19,	King Street	,,	69—120,	Chapel Lane	,,
18—30,	King Street	,,	70—112,	Chapel Lane	,,
19—17a,	King Street	,,	71—85,	Corporation St....	,,
20—11,	Dicconson Street.....	,,	72—51,	Corporation St....	,,
21—12,	Dicconson Street.....	,,	73—50,	Pool Street.....	,,
22—27,	Dicconson Street.....	,,	74—70,	Pool Street.....	,,
23—74,	Dicconson Street.....	,,	75—108,	Pool Street.....	,,
24—	Brick Kiln Lane	,,	76—116,	Hardybutts	,,
25—10,	Crompton Street	,,	77—35,	Hardybutts	,,
26—29,	Market Street	,,	78—265,	Gidlow Lane	,,
27—21,	Hallgate	,,	79—21,	Hodges Street	,,
28—54a,	Market Street	,,	80—69,	Schofield Lane....	,,
29—12,	Market Street	,,	81—1,	Westmoreland St..	,,
30—80,	Market Street	,,	82—4,	Worsley Terrace ...	,,
31—58a,	Market Street	,,	83—101,	Clayton Street...	,,
32—54,	Millgate	,,	84—6,	Great George St....	,,
33—10,	Worsley Terrace	,,	85—2,	Turner Street	,,
34—24,	Scarisbrick Street	,,	86—14,	Greenough Street	,,
35—20,	Rodney Street	,,	87—16,	Greenough Street	,,
36—	Woodcock Street	,,	88—9a,	Greenough Street	,,
37—	Pennyhurst Mill.....	,,	89—13,	Charles Street	,,
38—290,	Wallgate	,,	90—13,	Duke Street	,,
39—	Coffee Mill	,,	91—96,	Barnsley Street .	,,
40—13,	Wallgate	,,	92—11,	Whelley	,,
41—	Meek's Buildings	,,	93—12,	Whelley	,,
42—105,	Wallgate	,,	94—170,	Darlington St. E.	,,
43—2,	Scholes	,,	95—121,	Darlington St. E.	,,
44—18,	Makinson Arcade	,,	96—173,	Darlington St. E.	,,
45—3,	Fleet Street (P.)	,,	97—49,	Frog Lane	,,
46—16,	Garden Street	,,	98—26,	Frog Lane	,,
47—834,	Ormskirk Road (P.)	,,	99—19,	Vauxhall Road ...	,,
48—737,	Ormskirk Road (P.) .	,,	100—62,	Darlington Street	,,
49—788,	Ormskirk Road (P.) .	,,	101—24,	Darlington Street	,,
50—793,	Ormskirk Road (P.) .	,,	102—2,	Holme Street	,,
51—823,	Ormskirk Road (P.) .	,,	103—232,	Wallgate	,,
52—	Eccleston Street	,,			

WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT—*Continued.*

No.	Address.	Trade.	No.	Address.	Trade.
104—45,	Scholes	Dressmaker.	162—	Market Arcade	Milliner
105—47,	Scholes	„	163—163,	Scholes	„
106—40,	Poolstock Lane .	„	164—164,	Scholes	„
107—178,	Woodhouse Lane	„	165—154,	Scholes	„
108—348,	Woodhouse Lane	„	166—56,	Scholes	„
109—24a,	Woodhouse Lane	„	167—15,	Makinson Arcade ...	„
110—55,	Billinge Road (P.)	„	168—4,	Fleet Street (P.).....	„
111—85,	Enfield Street (P.)	„	169—405,	Warrington Rd. (P.)	„
112—6,	Chapel Street (P.)...	„	170—339,	Warrington Rd. (P.)	„
113—20,	Victoria Avenue...	„	171—739,	Ormskirk Road (P.)	„
114—11,	Duke Street (P.)...	„	172—587,	Ormskirk Road (P.)	„
115—13,	Duke Street (P.)...	„	173—127,	Ormskirk Road (P.)	„
116—	Warrington Road (P.)	„	174—745,	Ormskirk Road (P.)	„
117—590,	Warrington Rd. (P.)	„	175—134,	Ormskirk Road (P.)	„
118—1,	Barley Brook St....	„	176—60,	Standishgate	Clothing.
119—53,	Tunstall Lane (P.)	„	177—29,	Mesnes Street	„
120—34,	Poolstock	„	178—	Market Place	„
121—15,	Poolstock	„	179—37,	Market Street	„
122—142,	Park Road	„	180—7,	Millgate	„
123—86,	Park Road	„	181—115,	Darlington St. E.	„
124—84,	Park Road	„	182—168,	Frog Lane	„
125—36,	Park Road	„	183—72,	Darlington Street ...	„
126—91,	Ormskirk Rd. (P.)	„	184—	Pennyhurst Mill.....	„
127—200,	Ormskirk Rd. (P.)	„	185—124,	Wallgate	„
128—835,	Ormskirk Rd. (P.)	„	186—91,	Wallgate	„
129—710,	Ormskirk Rd. (P.)	„	187—	Barrack Yard.....	„
130—646,	Ormskirk Rd. (P.)	„	188—	Rowbottom Square	„
131—695,	Ormskirk Rd. (P.)	„	189—16,	Wallgate	„
132—772,	Ormskirk Rd. (P.)	„	190—	Market Arcade	„
133—812,	Ormskirk Rd. (P.)	„	191—70,	Scholes	„
134—305,	Ormskirk Rd. (P.)	„	192—90,	Scholes	„
135—57,	Springfield Road.	„	193—108,	Scholes	„
136—6,	Standishgate	Milliner.	194—68,	Scholes	„
137—17-23,	Standishgate.....	„	195—9,	Woods Grove.....	„
138—7,	Standishgate	„	196—15,	Fleet Street (P.)	„
139—35-39,	Standishgate.....	„	197—13,	Fleet Street (P.)	„
140—44,	Standishgate	„	198—31,	Brackley Street (P.)	„
141—	Church Street.....	„	199—76,	Ormskirk Road (P.)	„
142—21,	Mesnes Street	„	200—33,	Standishgate ...	Boot Repair.
143—67,	Mesnes Street	„	201—	Powell Street	„
144—9,	Library Street	„	202—45,	Wigan Lane	„
145—48,	Market Place	„	203—73,	Wigan Lane	„
146—8,	Market Place	„	204—17,	Mesnes Street	„
147—38,	Market Street	„	205—4,	Orchard Street	„
148—62,	Market Street	„	206—2,	King Street	„
149—16,	Schofield Lane.....	„	207—19,	Market Place	„
150—6,	Schofield Lane.....	„	208—34,	Market Place	„
151—200,	Darlington St. E....	„	209—76,	Hallgate	„
152—21,	Frog Lane	„	210—62,	Market Street	„
153—26,	Frog Lane	„	211—52,	Millgate	„
154—4,	Darlington Street....	„	212—22,	Millgate	„
155—61,	Darlington Street...	„	213—134,	Chapel Lane	„
156—	Woodcock Street	„	214—110,	Chapel Lane	„
157—70,	Wallgate	„	215—27,	Chapel Lane	„
158—158,	Wallgate	„	216—72,	Corporation St....	„
159—56,	Market Hall	„	217—66,	Pool Street.....	„
160—58,	Market Hall	„	218—86,	Pool Street.....	„
161—5-6,	Market Hall	„	219—178,	Gidlow Lane	„

WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT—*Continued.*

No.	Address.	Trade.	No.	Address.	Trade.
220—111, Gidlow Lane....	Boot Repair		277—105, Poolstock Lane ...	Clogger	
221—136, Gidlow Lane	„		278—208, Woodhouse Lane...	„	
222—39, Greenough St. ...	„		279—Martland Mill Bridge...	„	
223—8, Greenough St.	„		280—281, Billinge Road (P.)	„	
224—11, Greenough Street	„		281—59, Billinge Road (P.)...	„	
225—46, Springfield Road.	„		282—3, Enfield Street (P.)...	„	
226—69, Whelley	„		283—175, Enfield Street (P.)	„	
227—61, Darlington St. E.	„		284—37, Brackley Street (P.)	„	
228—116, Darlington St. E.	„		285—425, Warrington Rd. (P.)	„	
229—11, Frog Lane	„		286—Norfolk Street (P.).....	„	
230—39, Darlington Street	„		287—57, Park Road	„	
231—136, Wallgate	„		283—161, Park Road	„	
232—12, Wallgate	„		289—92, Ormskirk Road (P.)	„	
233—175, Scholes	„		290—831, Ormskirk Road (P.)	„	
234—233, Scholes	„		291—69, Ormskirk Road (P.)	„	
235—10, Scholes	„		292—411, Ormskirk Road (P.)	„	
236—113, Woodhouse Lane	„		293—Spencers Fold (P.)	„	
237—47, Woodhouse Lane.	„		294—Powell Street	Saddler.	
238—22, Church Street (P.)	„		295—102, Wigan Lane	„	
239—1, Chapel Street (P.).	„		296—8, Mesnes Street	„	
240—375, Warrington Rd. (P.)	„		297—5, Dorning Street	„	
241—819, Ormskirk Rd. (P.)	„		298—17, Millgate	„	
242—809, Ormskirk Rd. (P.)	„		299—90, Darlington Street...	„	
243—814, Ormskirk Rd. (P.)	„		300—53, Wallgate	„	
244—131, Ormskirk Rd. (P.)	„		301—2, Ormskirk Road (P.)...	„	
245—162, Ormskirk Rd. (P.)	„		302—38, Standishgate	Jeweller.	
246—397, Ormskirk Rd. (P.)	„		303—46, Market Place	„	
247—735, Ormskirk Rd. (P.)	„		304—29, Market Street	„	
248—79, Wigan Lane	„		305—76, Scholes.....	„	
249—72, Byrom Street	Clogger.		306—53, Scholes	„	
250—41, Hardybutts	„		307—27, Makinson Arcade...	„	
251—74, Lime Street	„		308—25, Makinson Arcade...	„	
252—87, Schofield Lane.....	„		309—95, Greenough Street...	„	
253—72, Schofield Lane.....	„		310—22, Standishgate	Plumber.	
254—4, Schofield Lane.....	„		311—Standishgate.....	„	
255—33, Platt Lane	„		312—88, Standishgate	„	
256—Lord Street.....	„		313—8, Clifton Street.....	„	
257—Wiend	„		314—Mesnes Street	„	
258—31, Whelley	„		315—Coppull Lane	„	
259—60, Whelley	„		316—Crompton Street	„	
259—60, Whelley	„		317—35, Millgate	„	
260—2, Cambridge Street.....	„		318—Millgate	„	
261—92, Frog Lane	„		319—162, Gidlow Lane	„	
262—138, Frog Lane	„		320—43, Greenough Street...	„	
263—31, Birkett Bank	„		321—85, Greenough Street...	„	
264—53, Queen Street	„		322—Rodney Street	„	
265—146, Wallgate	„		323—278, Wallgate	„	
266—154a, Wallgate	„		324—Clarence Yard	„	
267—174, Wallgate	„		325—176, Scholes	„	
268—83, Scholes	„		326—52, Poolstock	„	
269—103, Scholes	„		327—91, Park Road	„	
270—149, Scholes	„		328—166, Ormskirk Road (P.)	„	
271—160, Scholes	„		329—113, Standishgate	Painter.	
272—118, Scholes	„		330—Royal Oak Yard	„	
273—245, Scholes	„		331—15, Powell Street	„	
274—33, Scholes	„		332—63, Wigan Lane	„	
275—84, Scholes	„		333—Commercial Yard	„	
276—50, Scholes	„		334—Barracks Yard	„	

WORKSHOPS UNDER THE FACTORY AND WORKSHOP ACT—*Continued.*

No.	Address.	Trade.	No.	Address.	Trade.
335—15a, School Lane	Painter		384—Darlington St. E.....	Joiner	
336—37, Peet Street.....	„		385—Kenyon Road	„	
337—57, Caroline Street.....	„		386—Station Road	„	
338—Actons Yard.....	„		387—Union Bridge (P.)	„	
339—New Square	Shoeing Smith.		388—28, King Street...Cycle	Repairer.	
340—Brick Kiln Lane...	„		389—72, Market Street	„	
341—16, Millgate	„		390—92, Greenough St.	„	
342—87, Chapel Lane ...	„		391—44, Springfield Rd.	„	
343—Henhurst Bridge ...	„		392—Station Road	„	
344—Platt Lane	„		393—25, Ormskirk Rd. (P.)	„	
345—Coffee House	„		394—96, Ormskirk Rd. (P.)	„	
346—266, Wallgate ...	General Smith.		395—66, Millgate	Tinplate Works.	
347—Rowbottom Sq.	„		396—Clayton Street ...	„	
348—Stanley St. (P.)	„		397—Pottery Road ...	„	
349—Spencers Fold (P.).	Nail Maker.		398—182, Scholes	„	
350—Powell Street	Wheelwright.		399—68, Scholes	„	
351—Henhurst Bridge ...	„		400—Millgate Bridge... Tripe	Dresser.	
352—Darlington Street...	„		401—Watmoughs Yard	„	
353—Hartley Street (P.)	„		402—Scholes	Tallow Melters.	
354—Chapel Street (P.)...	„		403—Millgate	„	
355—Smithy Brook (P.)	„		404—Jackson's Square	Chandler.	
356—17-23, Standishgate, Cabinet M'kr.			405—Orchard Street .	Marine Stores.	
357—76, Standishgate ...	„		406—Henhurst Bridge	„	
358—King Street West...	„		407—Faggy Lane	„	
359—Soho Street (P.)...	„		408—Douglas Street .	„	
360—Douglas Side	„		409—Princess Street...	„	
361—Douglas Side	„		410—Miry Lane.....	Coffin Maker.	
362—60, Standishgate	Ice Cream.		411—Powell Street...	„	
363—62, Greenough Street	„		412—Douglas Street	Soap Boiler.	
364—63, Darlington St. E.	„		413—Douglas St. (P.)	Preserve Works.	
365—61, Queen Street	„		414—Bradford Place	„	
366—17, Hope Street ...	Scale Maker.		415—Little Lane (P.)	Ginger Beer.	
367—7, Hope Street	„		416—Douglas Street.....	„	
368—Station Road	„		417—Sharp Street	„	
369—18, Wigan Lane	Laundry.		418—Station Road	„	
370—Mariebonne	„		419—19, Bradshaw Street .	Clay Pipes.	
371—Holme Terrace	„		420—23, Wiend	Brass Founder.	
372—33, Mesnes Street	Knitting.		421—69, Darlington St.	„	
373—26, Poolstock	„		422—Clayton Street ...	„	
374—93, Ormskirk Road (P.)	„		423—Great Acre	Hard Confectioner	
375—39, Library St. ...	Picture Framer.		424—44, Schofield Lane	„	
376—29, Millgate	„		425—Bishopgate	„	
377—32, Darlington St.	„		426—Wiend	Brush Maker.	
378—8, Barracks Yard	„		427—Hallgate	French Polisher.	
379—121, Ormskirk Rd. (P.)	„		428—Woodcock St. Paper Box	Maker.	
380—58, Millgate	Carver.		429—23, Makinson Arcade	Umbrellas.	
381—Crofter's Arms Yard	Cooper.		430—20, Makinson Arcade....	Mantles.	
382—Boundry Street	„		431—8, Market Place	„	
383—33, Platt Lane	Joiner.		432—116, Scholes ...	Sausage Maker.	

BAKEHOUSES.

The bakehouses have been regularly visited, and when any nuisance has been discovered, notice has been served. The regulations as to limewashing, cleanliness, &c., have been enforced. The underground bakehouses have been kept in a sanitary condition.

The following is a list of Bakehouses :—

No.	Address.	Trade.	No.	Address.	Trade.
1—47a, Scholes	Confectioner.		51—25, Greenough St.	Confectioner.	
2—96, Scholes	„		52—84, Pool Street.....	„	
3—191, Scholes	„		53—19, Poolstock Lane	„	
4—237, Scholes	„		54—111, Poolstock Lane	„	
5—247, Scholes	„		55—4, Lorne Street.....	„	
6—232, Scholes	„		56—26, Darlington St.	„	
7—9, Chancery Street	„		57—53, Darlington St.	„	
8—16, Portland Street	„		58—42, Darlington St.	„	
9—10a, Hardybutts ...	„		59—66, Darlington St.	„	
10—18, Harrogate.....	„		60—77, Darlington St. E.	„	
11—120, Schofield Lane	„		61—162, Darlington St. E	„	
12—81, Park Road	„		62—76, Enfield St. (P.)	„	
13—104, Park Road....	„		63—109, Enfield St. (P.)	„	
14—162, Woodhouse L.	„		64—161, Enfield St. (P.)	„	
15—217, Woodhouse L.	„		65—126, Enfield St. (P.)	„	
16—132, Woodhouse L.	„		66—40, Victoria St. (P.)	„	
17—106, Gidlow Lane...	„		67—71, Ormskirk Rd. (P.)	„	
18—142, Gidlow Lane...	„		68—131, Ormskirk Rd. (P.)	„	
19—175, Gidlow Lane...	„		69—318, Ormskirk Rd. (P.)	„	
20—65, Hodges Street...	„		70—400, Ormskirk Rd. (P.)	„	
21—71, Barnsley Street	„		71—613, Ormskirk Rd. (P.)	„	
22—22, Earl Street.....	„		72—805, Ormskirk Rd. (P.)	„	
23—2, Pottery Road...	„		73—811, Ormskirk Rd. (P.)	„	
24—34, Wigan Lane....	„		74—718, Ormskirk Rd. (P.)	„	
25—36, Wigan Lane....	„		75—213, Warrington Rd. (P.)	„	
26—59, Wigan Lane....	„		76—310, Warrington Rd. (P.)	„	
27—163, Wigan Lane...	„		77—447, Warrington Rd. (P.)	„	
28—33, Market Place...	„		78—700, Warrington Rd. (P.)	„	
29—60, Market Place...	„		79—419, Warrington Rd. (P.)	„	
30—19, Mesnes Street...	„		80—266, Billinge Rd. (P.)	„	
31—23, Mesnes Street...	„		81—25, Fleet St. (P.)...	„	
32—47, Mesnes Street...	„		82—26, Chapel St. (P.)	„	
33—12, Wallgate	„		83—32, School Lane...	„	
34—54, Wallgate	„		84—349, Scot Lane (P.)	Baker.	
35—288, Wallgate	„		85—47, City Road (P.).....	„	
36—117, Wallgate	„		86—43a, City Road (P.).....	„	
37—242, Wallgate	„		87—48, Northumberland St, (P.)	„	
38—2, Warrington Lane	„		88—14, Chapel Street (P.).....	„	
39—37, Queen Street...	„		89—19, Fleet Street (P.).....	„	
40—17, Queen Street...	„		90—47, Billinge Road (P.).....	„	
41—31, Caroline Street	„		91—6, Warrington Rd. (P.)...	„	
42—75, Caroline Street	„		92—73, Warrington Rd. (P.)...	„	
43—32, Market Street...	„		93—767, Ormskirk Road (P.)...	„	
44—34, Market Street...	„		94—752, Ormskirk Road (P.)...	„	
45—58, Market Street...	„		95—215, Ormskirk Road (P.)...	„	
46—66, Market Street...	„		96—78, Ormskirk Road (P.)...	„	
47—31, Market Street...	„		97—83, Ormskirk Road (P.)...	„	
48—10, Standishgate ...	„		98—18a, Sovereign Road.....	„	
49—45, Standishgate ...	„		99—9, Enfield Street (P.).....	„	
50—120, Standishgate .	„		100—Spring Gardens.....	„	

BAKEHOUSES—*Continued.*

No.	Address.	Trade..	No.	Address.	Trade.
101—46,	Greenough Street.....	Baker	123—61,	Schofield Lane.....	Baker.
102—66,	Corporation Street.....	„	124—103,	Schofield Lane.....	„
103—New	Market Street.....	„	125—Roscoe	Street	„
104—Kenyon	Road	„	126—144,	Chapel Lane	„
105—Dorning	Street	„	127—Wood	Street	„
106—26,	Florence Street	„	128—Leigh	Street	„
107—45,	Queen Street	„	129—42,	Whelley	„
108—18,	Catherine Street	„	130—Thompson	Street	„
109—54,	Caroline Street	„	131—Appleton	Street	„
110—59,	Caroline Street	„	132—142,	Hardybutts	„
111—129,	Standishgate	„	133—Boundary	Street	„
112—Millgate	.....	„	134—78,	Scholes	„
113—108,	Wallgate	„	135—89,	Scholes	„
114—119,	Wallgate	„	136—116,	Scholes	„
115—248,	Wallgate	„	137—217,	Scholes	„
116—136,	Frog Lane	„	138—239,	Scholes	„
117—Orchard	Street	„	139—3,	Vauxhall Road.....	„
118—5,	Pitt Street	„	140—122,	Scholes	Pie Maker.
119—89,	Wigan Lane	„	141—58,	Vine Street	Crampets.
120—25,	Leader Street	„	142—142,	Platt Lane	„
121—39,	Kirkless Street	„	143—2,	Kendal Street.....	„
122—Andrew	Street	„			

The number of Workshops on the Register (s. 131) is 432, against 461 for the previous year, being a decrease of 29 for the year.

Notices received from H.M. Inspector of Factory and Workshop Act, 1910 :—

Three under Section 14—Means of escape in case of fire. Two have been complied with; one is not yet completed.

Three under Section 5—Sanitary defects. These notices have been complied with.

The number of Bakehouses on the Register is 143, against 149 the previous year, being a decrease of 6 for the year.

Nine are certified underground bakehouses, as follows :—

22, Earl Street.	36, Wigan Lane.
32, Market Street.	108, Wallgate.
58, Market Street.	12, Wallgate
10, Standishgate.	(Not being used as a bakehouse).
34, Wigan Lane.	Woodcock Street
	(Not being used as a bakehouse).

OUTWORKERS LISTS UNDER SECTION 107.

This year again shows a decrease in the number of Lists sent in, and in the number of Outworkers employed. The condition of premises where this work is done, was satisfactory.

SHOP HOURS ACT, 1892-1905.

During the year only a few visits have been made to shops—received five complaints of persons being caused to exceed the limit of hours allowed under the Act. Enquiries were made and observations taken. Two persons were over the age (18 years); in the other three cases I found no cause for complaint.

Observations of closing times are frequently taken, and I had reason to caution three proprietors for allowing young persons to work for longer than the limit of hours allowed. —

Seats for Shop Assistants.—At shops visited the Act was being carried out.

SHOP HOURS ACT, 1904—CLOSING ORDER.

(HAIRDRESSERS & BARBERS' SHOPS.)

Under the above Order four hundred and eighty visits were made during the day; six hundred and sixty two visits at night.

Six complaints were made against time cribbing, but no cause of complaint was found.

One proprietor was cautioned for employing young person at night who had worked in the pit during the day.

(Signed) F. G. BISHOP,

Inspector.

MEAT INSPECTION & SLAUGHTER-HOUSES

The Slaughter-houses have been frequently visited by the Inspectors. Speaking generally their condition is unsatisfactory, and it is only by constant and unremitting attention on the part of the tenants that many of them are rendered reasonably fit for slaughtering purposes. This entails constant visiting and re-visiting by the Inspectors.

DAIRIES, COWSHEDS AND MILKSHOPS ORDER, 1885 and 1886.

The Milk Supply on the whole is good, but more care should be exercised by the dairymen in reference to cleanliness. The milkers and distributors of the milk should be more cleanly in their own persons, and should look more closely after the utensils.

I subjoin Mr. Woods' Veterinary Inspector's report for 1910 :—

GENTLEMEN,

The whole of the Cowsheds in the Borough have been inspected and the udders of the cattle examined at least four times during the year. Only three cases of tuberculosis of the udder have been detected ; these have been satisfactorily dealt with.

Four of the Cowkeepers have left this country for abroad, partly they have said from the difficulty of carrying on their business at a profit under the present regulations and partly from fear of further restrictive legislation threatened by Mr. John Burn's Milk Bill.

More than that number have emigrated from the villages around, indeed I never recollect so many of the small farmers and milksellers who have emigrated in the hope of better times in the Colonies. Their places have however been immediately filled by others.

Generally speaking, the class of cattle kept is exceedingly good and the milk supply fairly clean, and I think one additional cause at any rate of the emigration is not that the cowkeepers are unable to crowd so many cows into a limited area, but that the difference in price between a newly-calved and a fat cow has been so great that it has swept away to a great extent the profit on the milk.

It is quite true that with the present regulations as to cubic space, a cowkeeper has not usually the option of keeping a cow that is not giving milk, and he therefore cannot keep a cow round, *i.e.*, until she would be due to calve again, as that means her giving no milk for a month or six weeks previous to calving and a diminishing quantity for a number of weeks before.

He has no option but to fatten and sell her,

This aspect of the case has again and again been brought to my notice, but as against this I must say that even when there were no regulations as to air space the cowkeepers rarely kept a cow more than her one milking "note."

Under any circumstances the regulations are there and in the opinion of all the highest authorities they are the minimum that can reasonably be demanded.

There can be no doubt but that if the further legislation foreshadowed is carried into law, the price of the article to the public will have to be increased.

The following is a List of Cowsheds within the Borough, together with the average number of Cows at each inspection :—

Occupier.	Address.	Number of Cows.
Edward Ackers	Highfield Farm	2
William Alker	Mellings Farm	12
Samuel Alker	Worthington Farm	16
Henry Barton	Colinfield Farm	8
Mrs. Britnell	Poolstock Farm.....	10
Henry Ball	Moss House Farm.....	10
James Bailey.....	Stone House Farm	16
Alfred Barton	Crabtree Farm.....	2
James Barton	Goose Green Farm	3
William Charnock	Norley Hall Farm.....	19
Thomas Dunn	Brimelow Farm	14
R. Gormally	Bellingham Farm	2
John Gore	Poolstock	3
Joseph Gill	Beech Hill Farm	20
Mrs. Holland	Worsley Mesnes.....	3
George Hogg	Tunstall Lane Farm	8
E. Hodgkinson	Worsley Mesnes.....	10
Henry Hodge	Hawkley Hall Farm	62
Peter Jameson	Duke Street	18
Thomas Johnson	Langley House Farm	7
John Jones	Seven Stars Dairy	39
William Jameson	Aaron Platts Farm	18
Thomas Kilshaw.....	Kitt Green	24
Ed. Leather	Bottling Wood	5
David McKay	Woodhouse Lane	2 (now dead)
Jas. O'Donahue	Princess Street	28
Mrs. Plover	Darlington Street East	3
Moses Phythian	Glasshouse Farm.....	7
William Phythian.....	Hatton House Farm	19
— Redford	Round House Farm	6
Thomas Southworth	Marsh Green	8
Mrs. Waterworth	Gidlow Lane Farm	3
W. L. White.....	Lamberhead Green	7
John Wadsworth	Derbyshire House Farm ...	10
Mrs. Wadsworth	Tan Pits Farm	6

The total number of cows thus kept within the Borough amounts to 430, being a slight increase in last year.

The following Cowsheds are kept under general observation but are not at the present time being used by cattle giving milk :—

Samuel Hampson, Worsley Hall Farm.
 Samuel Grey, Martland Mill Farm.
 William Fairhurst, Clapgate Farm.
 Orrell Colliery Co., Walthew House Farm.
 Jane Schofield, Mesnes Farm.
 Brimelow Bros., Kitt Green Farm.
 Henry Yates, Walthew Lane Farm.
 T. C. Liptrott, Woodhouse Lane Farm.
 Rd. Ashcroft, Whitley Farm.
 Mrs. Winstanley, Whelley Farm.

Yours obediently,

WILLIAM WOODS.

WATER SUPPLY.

The Water Supply has been continuous and of good quality. There has been no necessity to have a curtailment or intermittent supply, which is always dangerous.

The following are summaries of the reports on the analysis of the water made by the Public Analyst :—

January.—Hardness before boiling, 9·5 degrees ; after, 7·0 degrees.

The temporary hardness is roughly one-third of the permanent hardness. The water, judged by organic contamination standards, remains satisfactory (Wigan).

February.—Hardness before boiling, 6·5 degrees ; after 2·5 degrees.

This is a very satisfactory supply in all respects (Wigan).

March.—Hardness before boiling, 8·0 degrees ; after, 6·0 degrees.

These results are fairly satisfactory, but not as good as usual (Wigan).

April.—Hardness before boiling, 8·0 degrees ; after, 4·5 degrees.
An average quality of Corporation water in regard to both organic impurity and hardness (Wigan).

May.—Hardness before boiling, 6·25 degrees ; after, 4·25 degrees.
This month's supply is a "softer" water than the average.
The water is very satisfactory from all standpoints (Wigan).

June.—Hardness before boiling, 7·5 degrees ; after, 4·0 degrees.
The water is of fair all-round quality (Wigan).

July.—Hardness before boiling, 9·0 degrees ; after, 6·5 degrees.
The water supply is better this month than any month in the year (Wigan).

August.—Hardness before boiling, 7·0 degrees ; after, 3·8 degrees.
The figure recorded under Albuminoid Ammonia is very high for Wigan water, but further tests show freedom from polluting material. The water is perfectly sound in regard to all domestic purposes (Wigan).

September.—Hardness before boiling, 8·5 degrees ; after, 4·5 degrees.
There is a decided improvement over last month's analysis, and the water is now normal in quality (Wigan).

October.—Hardness before boiling, 7·5 degrees ; after, 4·0 degrees.
An average quality in regard to organic purity and hardness (Wigan).

November.—Hardness before boiling, 6·0 degrees ; after, 3·0 degrees.
This is a very fair sample of water (Wigan).

December.—Hardness before boiling, 12·0 degrees ; after, 6·5 degrees.
The Albuminoid Ammonia figure was abnormally high. The results recorded under "Albuminoid Ammonia" and "Oxygen Absorption" in all samples, show that the water, in its present condition, contains undesirable traces of readily changeable organic matter. This most probably is derived from peat or other vegetable source, in which case I am not prepared to lay much stress upon it. The remaining figures negative any suspicion of contamination by drainage or similar impurity (Pemberton—three samples).

RAINFALL, 1910.

AT WORTHINGTON.

Month.	Rainfall in inches and Tenths.	No. of days on which rain fell, being .01 of an inch or more.
January	3.79	22
February	3.15	27
March	0.72	12
April	2.49	22
May	3.02	23
June	2.88	17
July	5.04	12
August	4.95	23
September	0.38	6
October	3.11	12
November.....	5.69	25
December	3.42	28
TOTAL	38.64	229

The mean average rainfall for the past 53 years, 37.32 inches.

RAINFALL, 1910.

AT BISPHAM.

Month.	Rainfall in inches and Tenths.	No. of days on which rain fell, being .01 of an inch or more.
January	3.60	20
February	3.08	27
March	0.72	13
April	2.68	21
May	2.95	19
June	3.60	15
July	5.28	11
August	5.15	24
September	0.49	10
October	3.43	12
November.....	5.71	24
December	4.03	24
TOTAL	40.72	223

Average consumption per head per day, Wigan and Pemberton,
(estimated population, 94,960) was 16.75 gallons.

BLACK SMOKE NUISANCE.

Observations have been taken, and many cautions given, but no prosecutions have taken place.

PROPERTY UNFIT FOR HUMAN HABITATION.

The following houses were scheduled under the Housing, Town Planning Act, 1909, and were dealt with by the Committee :—

- 1, 2, 4, Lancaster's Entry, Lyon Street.
- 13, 15, 17, 19, 21, Princess Street.
- 3, 4, 5, 6, 7, Grundy's Yard, Hardybutts.
- 1, Bolton's Yard, Hallgate.
- 3, 4, 5, 6, Robin Hood Yard, Hallgate.
- 1, 3, Shaw's Yard, Hallgate.
- 1, 2, 3, 4, 5, Orrell's Yard, Arthur Street, Pemberton.
- 1, 2, 3, 4, McEwan's Yard, Millgate.

UNPAVED YARDS & PASSAGES, &c.

The following have been dealt with for defective surface of yards, &c. :—

- 48, 54, Lime Street.
- 6, Swan Terrace.
- 35-69, Byrom Street.
- 1, 3, 5, Spring Street.
- 5-25, Ashton Street.
- 2, Hill's Yard, Bridge Street.
- 212, Woodhouse Lane.
- 63, York Street.
- Monument Entry, Wigan Lane.
- 38-46, Lower Morris Street.
- 21-65, Lime Street.
- 6-13, Wood's Yard, Upper Morris Street.
- 63, 65, 67, Clayton Street.
- 5, 11, Addison Street.
- 25a, Russell Street.

31, Bolton Street.
 22, Leader Street.
 10, Gidlow Lane.
 57, Bottling Wood.
 22, Bradshaw Street.
 2-16, Woods Street.
 64, Clayton Street.
 13, Meadows Street.
 16, Grosvenor Street, Pemberton.
 1-5, School Terrace, Pemberton.

BOROUGH SURVEYOR'S DEPARTMENT.

The Borough Surveyor has kindly supplied me with the following particulars :—

	T.	C.	Q.
House refuse collected in Borough from January 1st to December 31st, 1910	18,639	9	2
Pail excreta removed in 1910	6,861	18	2
Midden and Ashpit refuse removed in 1910	11,950	18	0
Number of Pail Closets in Borough.....	7,560		
Number of Pails collected in 1910	431,902		
Cost (including washing and distribution)	£2,197	16	10
Cost of collecting Ashes during 1910	£2,439	12	5
Cost of collecting Midden and Ashpit refuse during 1910 ...	£1,359	3	3
Number of privy middens in Borough	1,725		
„ „ emptied, 1910	18,228		
„ new houses erected in 1910	209		
„ water closets in Borough	6,407		

SCAVENGING.

This department is under the control of the Sanitary Works Committee, and the disposal of sewage is in charge of the Sewage Farm Committee, the Medical Officer of Health being requested to attend when required.

Where a nuisance has arisen either from privies or pails, we have endeavoured to get them converted to the water-carriage system.

**REPORT of the Lady Health Visitor (Miss ALLDRITT)
to the Medical Officer of Health, on Work done
during the Year 1910. :: :: :: :: :: :: :: ::**

During the year 1910, in connection with the Notification of Births Act, I have paid 2,199 primary visits, and 364 re-visits.

The number of re-visits paid is out of all proportion to the number of cases requiring them, as in most cases constant visiting, until a child is six months or so, is required.

Where a child is being improperly fed, very little good results from a single visit, and it requires to be repeated many times ; under the present conditions it is an utter impossibility.

On the cleanliness of the houses generally, I think I can report more favourably than formerly, and there is also a general improvement in the care of the baby (at the first visit at all events), as each mother is informed by her midwife that the Lady Inspector may be expected at any time.

The tube bottle is still widely used, but the boat-shaped bottle is gradually gaining favour.

Much extra work has been caused in tracing several uncertified women who have been "habitually and for gain" practising midwifery in certain parts of the Borough ; and in following up the cases when traced.

The midwives practising within the area have been periodically visited, and their bags inspected. In the main they show marked improvement and the character of the midwives' work in general has improved.

Special inquiry has been made into all cases of deaths occurring from Summer Diarrhœa ; when an inspection has also been made of the drainage and sanitary accommodation of the premises at which the death occurred.

I have paid 174 miscellaneous visits to cases of Phthisis, Ophthalmia, Teething, Diarrhœa, etc., which come to my notice during my daily round of visits.

SUMMARY OF VISITS.

Births visited (N.B.A.)	2,199
Births re-visited	364
Midwives	91
Nuisances, Visits <i>re</i>	22
Diarrhoea deaths.....	56
Infectious diseases	5
Special visits <i>re</i> un-notified births.....	60
Miscellaneous.....	174
	<hr/>
	2,971
	<hr/>

MIDWIVES ACT, 1902.

We have now 55 women on the Midwives' Register for the Borough. During the year they have been visited at their own houses by Miss Alldritt, the Lady Health Visitor.

During the year there were 4 cases of Puerperal Fever notified and 2 deaths, against 8 cases and 5 deaths in 1909. In all cases a midwife had been in attendance; in each case she was suspended from carrying out her midwifery duties.

Caution has been given for negligence in carrying out the rules of the Midwives' Board.

During the year I have had the following reports sent in :—

78 Records of sending for Medical Help.

25 Notification of Still-births.

against in 1909 :

60 Records of sending for Medical Help.

34 Notifications of Still-births.

2 Notifications of Death of Child.

against in 1908 :

42 Records of sending for Medical Help.

4 Notifications of Death of Child.

26 Notifications of Still-births.

against in 1907 :

16 Records of sending for Medical Help.

2 Notifications of Death of Child.

18 Notifications of Still-births.

against in 1906 :

13 Records of sending for Medical Help.

4 Notifications of Death of Child.

15 Notifications of Still-births.

and in 1905 :

9 Records of sending for Medical Help.

5 Notifications of Still-births.

COUNTY BOROUGH OF WIGAN.

Midwives on Register, year ending 31st December, 1910 :—

<i>Name.</i>	<i>Registered No.</i>
Appleton, Mary	890
Ashton, Ellen	3,740
Archer, Annie M.	4,143
Alcock, Florence A.	17,693
Blatherwick, Jane	3,878
Barlow, Annie	12,602
Baxter, Mary E.	661
Banks, Jane	891
Bentham, Elizabeth	6,722
Bentham, Ellen	19,486
Bolton, Elizabeth	26,027
Booth, Maria	3,263
Cox, Jane.....	933
Cowley, Elizabeth	3,780
Cunliffe, Mary	19,073
Daniels, Ellen	9,585
Dutton, Harriet	10,507
Finch, Eliza.....	3,760
Finch, Alice	4,360
Fraser, Susannah	26,727
Grundy, Maria	3,643
Grocott, Harriet	5,241
Green, Sarah	13,239
Hall, Ann J.	10,630
Howarth, Mary E.	28,695
Holland, Annie A.	28,685
Halliwell, Ann H.....	4,121
Humphries, Margaret	4,479
Holland, Elizabeth	3,784
Layland, Alice	5,276
McAllister, Isabel	23,614
McCann, Margaret	2,532
Melling, S. A.	25,128
Patrick, Ann	6,335
Perkins, Margaret A.	4,145
Pilkington, Hannah	11,088
Priest, Catherine.....	17,057
Perry, Nancy	17,052
Quarmby, Helena M.	30,811
Shore, Eleanor	30,850
Scott, Jane I.	26,920
Taylor, Ann.....	3,331
Wilson, Dorothy	558
Worthington, Elizabeth	4,367
Walsh, Alice	4,346
Winstanley, Ann	3,574
Wilkinson, Mary J, G.	28,969

Residing outside, but practising in Wigan :—

<i>Name.</i>	<i>Registered No.</i>
Davies, Mary A.	2,780
Hill, Alice	3,766
Ellison, Mrs.	3,196
Green, Elizabeth.....	1,911
Knowles, Fanny	2,328
Moss, Margaret	4,398
Hall, Mrs.....	2,813
Moss, Elizabeth	15,722
Rudd, Ann	2,773
Trow, Mary Ann	21,067

NOTIFICATION OF BIRTHS ACT, 1907.

This Act has been adopted and has now been in operation since the 6th of June, 1910. Subjoined are the Infantile Death-rates for 1909 and 1910 :—

INFANTILE DEATH-RATES, 1909.

Month.	Deaths, all Causes.	Births.	Rate per 1,000 Births.	Diarrhœa Deaths.	Rate per 1,000 Births.
January	46	280	164	...	...
February	44	249	176	1	4
March	50	242	206	1	4
April	35	232	150	...	...
May	42	272	154	...	...
June	33	240	137	2	8
July	35	290	120	3	10
August	34	216	157	13	60
September	43	190	226	17	89
October	47	247	190	4	16
November.....	34	223	152	...	...
December	43	180	238	2	11
	486	2,861	169	43	15

Rate per 1,000 Births for 12 months, 169.

Average for the last 10 years (1899-1908), 174.

INFANTILE DEATH-RATES, 1910.

Month.	Deaths, all Causes.	Births.	Rate per 1,000 Births.	Diarrhoea Deaths.	Rate per 1,000 Births.
January	43	283	151	...	...
February	28	222	126	...	...
March	28	224	125	2	8
April	34	278	122	...	...
May	21	226	92	1	4
June	17	244	69	...	...
July	29	255	113	4	15
August	30	175	171	16	91
September	28	184	152	10	54
October	43	242	177	7	28
November	33	177	186	...	...
December	35	260	134	...	...
	369	2,770	133	40	14

Rate per 1,000 Births for 12 months, 133.

Average for the last 10 years (1900-1909), 172.

EDUCATION ACT, 1902 & 1904.

The report on the work done under these Acts is appended :—



County Borough of Wigan.



Education Department.



* **Annual Report** *

:: OF THE ::

SCHOOL MEDICAL OFFICERS,

:: FOR THE ::

YEAR ENDED 31st DECEMBER, 1910.



APPROVED BY THE EDUCATION COMMITTEE, 22nd FEBRUARY, 1911.



WIGAN :

STROWGER & SON, PRINTERS, CLARENCE PRESS, WALLGATE.
1911.

SCHOOL MEDICAL OFFICERS' REPORT.



*To the Chairman and Members of the Education Committee of the
County Borough of Wigan.*

LADIES AND GENTLEMEN,

We beg to submit our Second Annual Report on the Inspection of Schools and School Children for the Year ended the 31st December, 1910.

The total number of Schools examined was 28. These comprised 58 Departments.

4,948 children were examined, consisting of 2,540 boys and 2,408 girls. The average length of time taken up by each examination was 6 minutes.

It has been found necessary to issue 75 notices requiring parents to cleanse their children within 24 hours. Of these children, 13 were removed from School and cleansed at the cleansing station. They are still under observation.

The School buildings were found to be in a fairly satisfactory state of repair. The Reports on the sanitary condition of the whole of the Schools presented last year mainly apply to this year, and only a few remarks need be added to each.

PRESBYTERIAN SCHOOL.

Surroundings :—Street, cottage property.

Two playgrounds—both cindered. There are ash tubs in the Infants' and Girls' playground. The conveniences are trough-water closets. The urinal in the Infants' yard is not satisfactory. The cloakroom is formed by a passage, and there is no drying apparatus. The School is heated by pipes and open fires.

Three lavatory basins only are provided. The School has been painted and cleaned throughout, and the conveniences limewashed and re-varnished.

WESLEYAN SCHOOL.

Surroundings :—Street, St. John's R.C. School, and house property.

Playgrounds :—Two. Both are partly under the School itself. Both are flagged and are small in area, with drinking water supply in each yard.

The conveniences are trough water closets and urinals.

The conveniences in the Boys' yard are not provided with doors.

There are three cloakrooms, small in area, and somewhat dark.

There is no drying apparatus. The School is heated by hot water pipes.

The Infants' Department has been cleaned and painted throughout, and the conveniences of both Departments have been limewashed and re-varnished.

NATIONAL AND BLUE COAT SCHOOL.

Surroundings :—Streets, waste land, cottage property.

Playgrounds :—Three in number.

The Girls' playground is flagged, and has a dry ashpit.

The Boys' playground is flagged.

The Infants' playground has one portion cindered and the other part flagged.

The conveniences consist of pail closets and urinals.

There are three cloakrooms, with no drying apparatus.

Each cloakroom contains three lavatory basins.

The heating of the School is by hot water pipes, fires and stoves.

The Infants' and Boys' Departments have been cleaned and painted throughout. In the Boys' Department the old wood partitions have been removed and replaced by modern glass partitions. The conveniences of the three Departments, Girls', Boys' and Infants' have been limewashed and re-varnished. Emergency iron steps have been erected for the Girls' Department.

KITT GREEN SCHOOL.

This is an old two-roomed building.

Surroundings :—Street, waste land, cottage property.

The ventilation and lighting are fair.

The heating is by hot water pipes.

There are two small cloakrooms, with no drying apparatus.

One of the cloakrooms contains two lavatory basins.

The conveniences are trough water closets, urinals, and privy middens.

There are two playgrounds, each partly flagged and partly cindered.

The conveniences have been limewashed and re-varnished.

MARSH GREEN SCHOOL.

Surroundings :—Waste land and streets.

The ventilation is fair, but the lighting poor.

The heating is by open fires, and is inadequate in the large room.

There are two lavatory basins in a recess off the main room.

The two playgrounds are cindered. In the Infants' yard there is an ashpit.

The conveniences consist of trough water closets and urinal.

The conveniences have been limewashed and re-varnished.

ST. MARK'S C.E. SCHOOL.

Surroundings :—Street and waste land.

Ventilation good, and lighting fairly good.

The heating is by fires and hot water pipes.

There are two cloakrooms in the Infants' Department, one cloakroom in the Girls' Department, and two in the Boys' Department.

The Infants' cloakroom contains one lavatory basin, the Girls' three basins, and the Boys' five.

The conveniences consist of trough water closets, privy middens, and urinals.

The two playgrounds are both cindered.

The conveniences have been limewashed and re-varnished.

PEMBERTON COLLIERY C.E. SCHOOL.

Surroundings :—Street, cottage property, and fields.

The Boys' Department is an old building, some distance from the Girls' and Infants' Departments.

The ventilation and lighting are fair.

The heating is by open fires and a stove.

There are two lavatory basins in the cloakroom.

The Girls' and Infants' Departments are good, modern buildings.

Ventilation and lighting are good.

There are five lavatory basins in the Girls' Department, and three in the Infants' Department.

There is one cloakroom in each Department, with no drying apparatus.

The conveniences are wash-down closets, trough water closets, and urinals.

There are three playgrounds, all cindered.

The conveniences have been limewashed and re-varnished.

POOLSTOCK C.E. SCHOOL.

Surroundings :—Streets.

The ventilation and lighting are fair in the Mixed Department and good in the Infants' Department.

The heating is by open fires.

There are two cloakrooms, one with a large fire for heating and drying purposes in Infants' and Girls' cloakroom. There is no drying apparatus in the Boys' cloakroom.

There are two lavatory basins in each cloakroom.

The two somewhat small playgrounds are flagged.

The conveniences are pail closets and urinals.

The conveniences have been limewashed and re-varnished.

SACRED HEART R.C. SCHOOL.

This is a small modern School, surrounded by waste land and street.

The ventilation is good, and the lighting also good.

The heating is by open fireplaces.

There are two cloakrooms, with no drying apparatus.

There are two lavatory basins in one cloakroom, and one lavatory basin in the other.

There are two playgrounds, both cindered.

The conveniences are wash-down closets, and urinals.

The conveniences have been limewashed and re-varnished.

ST. ANDREW'S C.E. SCHOOL.

Surroundings :—Waste land and cottage property.

The ventilation is fairly good, and the lighting good.

The heating is by water pipes and fires.

There are three cloakrooms, with no drying apparatus. There are three lavatory basins in the Infants' Department, three in the Girls' Department, and three in the Boys' Department.

There are two playgrounds, both cindered.

The conveniences are trough water closets and urinals.

The Mixed and Infants' Departments have both been painted and cleaned throughout.

The conveniences have been limewashed and re-varnished.

ST. CATHARINE'S C.E. SCHOOL.

Surroundings :—Street, and cottage property.

The lighting is fair, and the ventilation fairly good.

The heating is by hot-water pipes.

There are two inside wooden staircases, with hand rails.

The two cloakrooms contain a lavatory basin ; two others are fixed in classroom.

The cloakrooms contain no drying apparatus.

There are two playgrounds, both flagged.

The conveniences are wash-down closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. CUTHBERT'S R.C. SCHOOL.

Surroundings :—Street, and house property.

The ventilation is good, and the lighting good.

The heating is by hot-water pipes, fires, and stoves.

There are two small playgrounds, both flagged.

The conveniences are trough-water closets.

There are three cloakrooms. One large cloakroom contains an open fireplace.

There are two cloakrooms in the Mixed Department.

There are no lavatory basins in the Infants' Department, and five in the Mixed Department.

The conveniences have been limewashed and re-varnished.

ST. GEORGE'S C.E. SCHOOL.

Surroundings :—Cottage property and waste land.

The ventilation is good, and the lighting good.

The heating is by hot-water pipes and open fires.

There are three large cloakrooms, with three lavatory basins in each.

There are two stone staircases to the upper floor, with hand rails.

The two playgrounds are partly cindered.

The conveniences are trough-water closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. GEORGE'S (MARYLEBONE) C.E. SCHOOL.

Surroundings :—Street and vacant land.

The ventilation of this small school is only fair.

The lighting is insufficient.

The heating is by hot-water pipes.

There are two small cloakrooms.

The lavatory basin is a movable enamelled tin basin.

There is one large playground, unpaved.

The conveniences are pail closets and a small urinal.

The conveniences have been limewashed and re-varnished.

ST. JAMES'S WORSLEY MESNES C.E. SCHOOL.

Surroundings :—Street, cottage property, and waste land.

Ventilation good.

Lighting good.

The heating is by hot-water pipes and open fires.

The cloakrooms comprise two in the Infants' Department, and three in the Mixed Department.

There are six lavatory basins, four in the Infants' Department, and two in the Mixed Department.

The three large playgrounds are cindered.

The conveniences are trough-water closets and urinals.

There is an ashpit in the Girls' yard.

The conveniences have been limewashed and re-varnished.

ST. JOHN'S C.E. SCHOOL.

Mixed Department :—Surroundings : Cottage property, grave yard, and waste land.

The ventilation is good, and the lighting good.

The heating is by hot-water pipes.

There are two cloakrooms, with no drying apparatus. They contain eight lavatory basins.

The two large playgrounds are cindered.

The conveniences are trough-water closets and urinals.

Infants' Department : — Surroundings : Street, cottage property.

Ventilation fair.

Lighting fair.

The rooms are warmed by open fires.

There are two cloakrooms (small) with no drying apparatus.

The stone staircase is narrow, with a hand rail on one part.

The two small playgrounds are flagged .

The conveniences are trough-water closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. JOHN'S R.C. SCHOOL.

Boys' Department : — Surroundings : Street, house property, and School.

Ventilation fairly good.

Lighting very good.

The heating is by hot-water pipes.

There is one stone staircase with no hand rail.

The one large cloakroom contains no drying apparatus. It has three lavatory basins.

The small playground is flagged.

The conveniences are trough-water closets and urinals.

Girls' and Infants' Departments : — A modern and well-arranged building.

The ventilation is good, and the lighting good.

The School is heated by hot-water pipes and open fires.

There are two good cloakrooms, with one lavatory basin in each.

There is no drying apparatus.

The one wide stone staircase has no hand rail.

The fairly large playground is flagged.

The conveniences are trough-water closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. JOSEPH'S R.C. SCHOOL.

Surroundings :—Street and cottage property.

The ventilation is fair, and the lighting fair.

The heating is by hot-water pipes.

There is a small cloakroom in each Department, with no drying apparatus.

The two small playgrounds are flagged.

The conveniences are trough-water closets and urinals.

There are five lavatory basins, two in the Infants' Department, and three in the Boys' Department.

The Girls' and Infants' Departments have been painted and cleaned throughout.

In all Departments the conveniences have been limewashed and re-varnished.

ST. MARY'S R.C. SCHOOL.

Surroundings :—Church and open ground.

The ventilation is good, and the lighting good.

The School is heated by hot-water pipes and open fires.

There are five lavatory basins, two in the Boys' Department, two in the Girls' Department, and one in the Infants' Department.

The two somewhat small playgrounds are flagged.

The conveniences are wash-down closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. MICHAEL'S C.E. SCHOOL.

Surroundings :—Street, waste land, and cottage property.

The ventilation is good, and the lighting good.

The heating is by hot-water pipes and open fires.

There are four cloakrooms, two in the Mixed Department, and two in the Infants' Department. They contain six lavatory basins.

The two playgrounds are cindered.

The conveniences are pail closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. PATRICK'S R.C. SCHOOL.

Boys' and Juniors' Departments :—Surroundings : Street and cottage property.

The ventilation and lighting are good.

The heating is by hot-water pipes, open fires, and stoves.

There are three cloakrooms, one in the Boys' Department, and two small rooms for the Juniors.

There are four lavatory basins, two in the Boys' cloakroom, and one each of the Juniors.

There is one large playground, flagged.

The conveniences are trough-water closets and urinals.

Girls' and Infants' Departments :Surroundings : Street and cottage property.

The ventilation is good, and the lighting fair.

The heating is by open fires.

There are two cloakrooms with no drying apparatus.

They contain six lavatory basins.

There are two small flagged playgrounds.

The conveniences are trough-water closets, pail closets, and urinals.

There are two staircases, stone, with hand rails.

The conveniences have been limewashed and re-varnished.

ST. PAUL'S C.E. SCHOOL.

Surroundings :—Cottage property, waste land, and street.

The ventilation and lighting are fairly good.

The heating is by hot-water pipes and open fires.

There are four small cloakrooms, with no drying apparatus.

The two stone staircases have no hand rails.

The cloakrooms each contain a lavatory basin.

There are two playgrounds, one cindered, and the other half cindered and half flagged.

The conveniences are privy middens, wash-down closets, and urinals.

There is one ashpit in the Boys' yard.

The Boys' and Infants' Departments have been painted and cleaned—.

In all Departments the conveniences have been limewashed and re-varnished.

ST. THOMAS'S CAROLINE STREET C.E. SCHOOL.

Surroundings :—Street, cottage property, and church.

The ventilation is fair, lighting fairly good, and the heating is by hot-water pipes.

There are three cloakrooms, with no drying apparatus.

There are four lavatory basins in the Mixed Department, and one in the Infants' Department.

The two wooden staircases have no hand rails.

The two small playgrounds are flagged.

The conveniences are pail-closets and urinals.

The Mixed and Infants' Departments have been painted and cleaned.

The conveniences have been limewashed and re-varnished.

ST. THOMAS'S CLAYTON STREET C.E. SCHOOL.

Surroundings :—Street and cottage property.

The ventilation is fair, the lighting fair, and the heating is by hot water pipes and open fires.

The three cloakrooms have no drying apparatus.

There are four lavatory basins, two in the Infants' Department, and two in the Mixed Department.

The two playgrounds are flagged.

The conveniences are trough-water closets and urinals.

There are two stone staircases.

The Mixed and Infants' Departments have been painted and cleaned.

The conveniences have been limewashed and re-varnished.

WARRINGTON LANE COUNCIL SCHOOL.

Surroundings :—Streets and railway.

The ventilation is good, the lighting fair in the Mixed Department, and good in the Infants' Department.

The School is heated by hot-water pipes and open fires.

There are three cloakrooms with no drying apparatus, containing two lavatory basins in the Infants' Department, and three in the Mixed Department.

One of the playgrounds is cindered, and the other flagged.

The conveniences are trough-water closets and urinals.

The conveniences have been limewashed and re-varnished.

ST. CATHARINE'S WHELLEY BRANCH C.E. SCHOOL.

Surroundings :—Street, waste land, and cottage property.

The ventilation is good, the lighting fairly good, and the heating is by hot-water pipes and open fires.

There are two cloakrooms, with no drying apparatus.

There are six lavatory basins in the Infants' and Girls' Departments, and two in the Boys' Department.

The conveniences are wash-down closets and urinals.

One of the two playgrounds is cindered, and the other flagged.

There are open ashtubs in the Boys' yard.

The conveniences have been limewashed and re-varnished.

There has been no alteration in the sanitary arrangements on our Report last year. The water closets should be flushed more frequently, especially during the summer months.

Children at the following Schools have been medically inspected during the year :—

<i>School.</i>	<i>Department.</i>	<i>No. of Visits.</i>
Presbyterian	Infants'	3
	Mixed	3
Wesleyan	Infants'	4
	Mixed	7
National and B.C.	Infants'	7
	Boys'	5
	Girls'	6
Kitt Green	Mixed	4
Marsh Green	Mixed	4
St. Mark's	Infants'	9
	Girls'	1
	Boys'	4
Pemberton Colliery	Infants'	8
	Girls'	3
	Boys'	4

<i>School.</i>	<i>Department.</i>	<i>No. of Visits.</i>
Poolstock C.E.	Infants'	5
	Mixed	3
Sacred Heart R.C.	Mixed	7
St. Andrew's	Infants'	6
	Mixed	5
St. Catharine's	Infants'	8
	Girls'	5
	Boys'	4
St. Cuthbert's	Infants'	4
	Mixed	2
St. George's	Infants'	7
	Mixed	5
St. George's, Marylebone	Mixed	2
St. James's, Worsley Mesnes	Infants'	4
	Mixed	1
St. John's C.E.	Infants'	7
	Mixed	2
St. John's R.C.	Infants'	4
	Girls'	2
	Boys'	2
St. Joseph's R.C.	Infants'	3
	Girls'	2
	Boys'	3
St. Mary's R.C.	Infants'	4
	Girls'	1
	Boys'	2
St. Michael's	Infants'	4
	Mixed	1
St. Patrick's	Infants'	5
	Girls'	1
	Boys'	4
	Juniors'	4
St. Paul's Goose Green	Infants'	5
	Girls'	1
	Boys'	3
St. Thomas's, Caroline Street	Infants'	3
	Mixed	5

<i>School.</i>	<i>Department.</i>	<i>No. of visits.</i>
St. Thomas's, Clayton Street	Infants'	2
	Mixed	5
Warrington Lane Council	Infants'	2
	Mixed	7
St. Catharine's, Whelley Branch	Infants'	4
	Mixed	2

Selection of Children for Examination :—

(1) At Entrance.

(2) All children of 7 years of age.

(3) Those about to leave School.

Number of Children examined :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14	<i>Total.</i>
Females .	676	269	730	178	83	72	95	189	111	5	2,408
Males	689	287	754	197	69	107	121	183	126	7	2,540

Grand Total 4,948

Table showing the average height in inches and centimetres of children examined :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14
<i>Females :</i>										
Inches	40·087	41·86	44·134	45·869	47·975	50·479	50·339	54·076	56·349	58·30
Centimetres	101·8	106·3	112·1	116·51	121·9	128·21	127·82	137·31	143·12	148·1
<i>Males :</i>										
Inches	40·375	41·894	44·312	45·815	47·884	50·0	51·871	54·459	54·521	56·25
Centimetres	102·55	106·4	112·52	116·35	121·65	127·0	131·78	138·35	138·48	142·88

Table showing the average weight, in pounds and kilogrammes, of children examined :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14
<i>Females :</i>										
Pounds	35·454	41·34	45·479	48·616	54·355	58·298	63·315	71·626	78·986	91·2
Kilogr'm's .	17·45	18·75	20·62	22·05	24·66	26·44	28·72	32·49	35·83	41·5
<i>Males :</i>										
Pounds	38·94	42·721	47·286	49·492	55·55	60·088	65·082	71·778	74·242	79·714
Kilogr'm's .	17·66	19·38	21·45	22·46	25·2	27·26	29·52	32·56	33·68	36·06

The number of parents who were advised to obtain treatment was 194, the classification of defects being as follows :—

Teeth.	Nose & Throat.	Tonsils & Adenoids.
11	1	36
Submax & Cervical.		Eyes :—
Glands.	External.	Vision.
1	45	87
	Ear Disease.	
	9	
Hearing.	Lungs.	Skin Disease.
19	1	3
	Other Diseases.	
	3	

Table showing number of children with indifferent clothing :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14	<i>Total.</i>
Fair	124	42	84	29	16	22	21	38	16	—	391
Poor	39	20	43	12	7	10	8	11	8	1	159
Bad	8	3	8	4	1	2	3	—	2	—	31

Table showing number of children of indifferent nutrition :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14	<i>Total.</i>
Fair	37	16	39	10	5	9	6	7	7	—	136
Poor	2	2	6	3	—	—	—	1	2	—	16

Table showing number of children with one or more decayed teeth, which did not need immediate attention :—

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14
	871	394	1174	312	129	139	159	270	167	11

Table showing number of children whose mental powers were below normal :---

<i>Ages.</i>	5	6	7	8	9	10	11	12	13	14	<i>Total.</i>
Dull.....	—	4	5	7	2	2	—	—	1	—	21
Backward.....	—	6	3	6	6	3	3	—	2	1	30
Deficient.....	1	2	2	—	—	—	—	—	—	—	5
											56

Number of defective children not included in the above tables :—

Deformities	24	Nervous System	7
Heart and Circulation	18	Imbecile	1

The number of children found with Pediculosis was 307. Of these 299 were found to be cleansed within one week after the first warning was sent to the parents. The remaining 8 at the end of a week were found to be so much improved that no further action was taken against them. They remained under observation until completely cleansed.

Table showing cases followed up by the School Medical Staff after examination, and the result of the treatment, if any :—

	Old Cases.	Treated Cured.	Im- proved	Un- change l.	Untreated	Left School No Record at Hand.
Teeth	42	1	4	...	26	13
Nose and Throat	17	10	...	...	4	3
Tonsils and Adenoids	127	29	10	1	50	37
Glands	5	1	...	...	4	...

Eyes :—

External	73	20	17	3	23	10
Vision	389	...	24	211	154	...
Ear Disease	34	...	11	11	10	2
Hearing	107	17	5	21	56	8
Speech	2	...	...	2	...	...
Heart	2	...	...	2	...	...
Lungs	16	13	...	...	...	3
Deformities	1	...	...	1	...	...
Other Diseases	10	8	...	...	...	2

Skin Diseases :—

Scabies	1	1	...	...	...	...
Other	33	30	...	1	...	2
Cretin	2	...	...	2	...	...

Adenoids.—No Special Examination, such as digital examination of the naso-pharynx was made for Adenoids, but even when no history could be obtained it was often possible to say positively whether they were present or not.

Probably the number given above is under-estimated.

External Eye.—The majority of the defective external eye conditions found on inspection have been marginal bupharitis or strabismus.

Vision.—Children under 7 years have not had their eyesight tested, but in a few cases where obvious defect existed, it has been noted and included in the percentage of defects of vision already given.

Rickets.—These children were not actually suffering from Rickets at the time of the inspection, but showed well marked signs of having had the condition when younger. They are, therefore, included with the cases of deformity.

School Nurse.—During the past year the work of the School Nurse has consisted of attending at the Schools, and assisting with the work of Medical Inspection. She has, in addition, visited the homes of as many as possible of those children whose parents have been requested to obtain medical treatment. She has also made independent examinations, without a previous notice having been given, with a view of detecting verminous or dirty bodies. In this direction her work has been invaluable, and for her loyal co-operation our best thanks are due.

We beg to remain,

Ladies and Gentlemen,

Your obedient Servants,

J. FOREMAN BERRY, M.B., Ch.B.,

ACTING SUPERINTENDENT

SCHOOL MEDICAL OFFICER.

CECIL BERRY, L.R.C.P. & S. Ed., etc.,

ASSISTANT SCHOOL MEDICAL OFFICER.

22nd February, 1911.

Annual Report of the Public Analyst, 1910.



April, 1911.

To the Chairman and Members of the Health Committee.

GENTLEMEN,

I beg to report herewith a short resumé of the year's work in the Analytical Department of the Corporation.

There is no matter of exceptional importance to bring to the notice of the Council, though the question of the Pemberton water supply is one which has received rather special attention.

It is with pleasure that I have to acknowledge the generous help accorded me by the Officials of the Health, Water, and Gas Departments, and, in particular, the co-operation of Chief Inspector J. Sumner.

I remain, Gentlemen,

Your obedient Servant,

S. ERNEST MELLING.

WORK CARRIED OUT UNDER THE SALE OF FOOD AND DRUGS ACTS.

During the year 184 samples were submitted for analysis, viz. :
Milk 127, Butter 35, Rice 8, Tea 6, Coffee 4, Cheese 3, and Marmalade 1.

Eleven samples of Milk were found to be adulterated ; 5 by the addition of water in amounts varying from 1·6 to 17%, and 6 deprived of fat (by either a skimming process or the addition of separated milk) in proportions varying from 3 to 20%. The adulteration of milk therefore works out at between 8 and 9% on the total number of samples taken, which is a decided increase for Wigan. In all fairness, however, mention should be made of the fact that the great majority were found to be of very good quality, the fat-content being nearer 4 than 3%, and, in no case, was the presence of any preservative noted.

All samples of Butter were pure and free from excessive water and, where Boron compounds were detected, they were present in proportions not exceeding 35 grains per pound.

The analysis of Rice was largely confined to the determination of the amount of steatite present. Steatite or talc is very largely used as a coating for the rice granules, whereby its appearance is greatly improved. A Departmental enquiry into this practice took place some 18 months ago, and in the report issued certain recommendations were made. It was suggested that 0·5% be taken as the limit above which the steatite-content should not rise. Five of the above samples were natural rice and had not been treated by this process ; the remaining 3 containing respectively, 0·28, 0·46 and 0·38% of steatite.

The samples of Tea and Coffee were normal in all respects, and the Cheeses contained good proportions of fat and were free

from "filling." The sample of Marmalade, which was from a private source, contained 0.224 grain per pound of copper, equivalent to .85 grain per pound of crystallised sulphate of copper. This contamination was undoubtedly due to some solution taking place in the copper pan during the boiling process.

WORK CARRIED OUT UNDER THE FERTILIZERS AND FEEDING STUFFS ACTS.

Thirty-three unofficial samples were analysed, of which 25 were normal in character, and 8 more or less deficient in some important constituent. In the absence of invoices one has to judge of a fertilizer or foodstuff in its all-round character and not so much upon one particular factor.

EXAMINATION OF THE PUBLIC WATER SUPPLY.

Each month of the year an analysis was made of either the Wigan or Pemberton water supply. Owing to certain abnormal conditions in the latter I reported, specially, on December 14th, my analyses of the water taken twice (December 7th and 10th) from the Pemberton Sanatorium and from Dr. Redman's house, Ormskirk Road (December 10th). As a result, the matter was gone into thoroughly, and an inspection of the gathering ground took place on December 29th. Samples of Nicholson's Pit water; water as received at Edgewood's before and after filtering, and after storage; water from Reservoir No. 1; and pit water, were secured, and my report, with recommendations, was submitted on 14th of January last. The results of analysis when compared with the Wigan figures might have appeared startling, but, as I pointed out, there is no evidence whatever of animal pollution, and the vegetable contamination indicated will be minimised as the result of the intake of Nicholson's Pit water (a very pure supply) and of the other suggestions.

With regard to the Wigan water supply, variations have occurred as follows :—

Total hardness from 9·5° to 6·0°.

Permanent „ „ 7·0° to 2·5°.

Alkalinity „ 4·0 grains to 2·5 grains per gallon.

The highest quantity of Albuminoid Ammonia was on August 11th, viz. :—0·12 part per million, and the lowest 0·06, in July. There have been traces of free Ammonia (*i.e.*, saline or meal) on three occasions only, and the combined Chlorine as Sodium Chloride has been very constant throughout at about 1·6 grains per gallon. Nitrites have been completely absent, and the Nitrates figures have varied but slightly.

In all-round characters the water is of very satisfactory quality.

GAS TESTS.

The illuminating power of the Corporation gas supply was taken each of the earlier and later months of the year, and averaged 18·18 sperm candles ; the highest record being 18·30 and the lowest 18·00.

S. ERNEST MELLING.

County Borough of Wigan.



ANNUAL REPORT

OF THE

Chief Sanitary Inspector.

1910.



WIGAN :

STROWGER AND SON, PRINTERS, CLARENCE PRESS, WALLGATE.

1911.

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ANNUAL REPORT OF THE CHIEF SANITARY INSPECTOR,
1910.

HEALTH DEPARTMENT,

KING STREET WEST, April, 1911.

To the Chairman and Members of the Health Committee.

SIR AND GENTLEMEN,

I have pleasure in submitting to you my Twentieth Annual Report of the work executed by the Staff of the Department during the year 1910.

The Inspectors have done their work in a very satisfactory manner, and the work performed shows that their time has been very fully occupied, more especially when you consider how the Department is staffed ; they have (as you are aware) to use as much tact combined with as little friction as possible in the carrying out of their work, and it speaks very highly of their work that so little court work has had to be resorted to.

The following is a Summary of the Work done, and a description of the Nuisances dealt with :—

Houses and Premises Inspected and	
Visited (<i>re</i> Nuisances and Complaints)...	6,503
Nuisances Discovered	1,325
„ Abated	1,148
Notices Issued (Preliminary)	466
„ (Formal)	463
Letters Written <i>re</i> Nuisances	99
Re-Inspections made (about)	3,312
Other Visits made	660
No. of Visits to Premises, Testing of	
Drainage	148
Nuisances remaining on Books, December	
31st, 1910	219

DESCRIPTION OF NUISANCES DEALT WITH.

Defective Drainage	...	...	...	...	...	...	53
Choked Drainage	...	...	...	...	...	...	163
Defective and Foul Gullies	...	...	...	...	...	...	28
Gullies requiring Grids	...	...	...	...	...	...	7
Defective Slopstones	...	...	...	...	...	...	3
Want of Slopstones and Pipes	...	...	...	...	...	...	18
Sink Waste Pipes connected to Drains	...	...	...	...	...	...	7
Bath and Lavatory Waste Pipes Defective	...	...	...	...	...	...	3
Soil Pipes or Connections Defective	...	...	...	...	...	...	6
Defective or Choked Water Closets	...	...	...	...	...	...	25
Defective or Choked Sink Waste Pipes	...	...	...	...	...	...	39
Defective Ventilating Shafts	...	...	...	...	...	...	1
Defective Water Supply to Closets	...	...	...	...	...	...	3
Defective Condition of Closets (Roof, Walls, Door, Seat or Floor)	...	...	...	...	...	...	142
Want of Doors to Closet	...	...	...	...	...	...	10
Want of Doors to Ashhouse...	...	...	...	...	...	...	16
Defective Condition of Ashhouses (Roof, Walls, Door, or Floor)	...	...	...	...	...	...	41
Defective or Choked Waste Water Closets	...	...	...	...	...	...	16
Want of Ashtub Covers	...	...	...	...	...	...	2
Want of Ashtubs	...	...	...	...	...	...	17
Foul and Defective Privies and Ashpits	...	...	...	...	...	...	1
Downspouts connected to Drains	...	...	...	...	...	...	1
Defective W.C. Cisterns	...	...	...	...	...	...	11
Insufficient Closet Accommodation to Houses or Workshops	...	...	...	...	...	...	3
Defective Spouts (Eave or Down)	...	...	...	...	...	...	156
Want of Spouting to Premises	...	...	...	...	...	...	8
Defective Roofs	...	...	...	...	...	...	84
Defective Yard Surface round Gully	...	...	...	...	...	...	20
Defective Flagging or Paving	...	...	...	...	...	...	102
Houses without Proper Drainage	...	...	...	...	...	...	12
Houses Overcrowded and Keeping of Lodgers...	...	...	...	...	...	...	22
Houses and Premises Filthy	...	...	...	...	...	...	4
Houses requiring Limewashing	...	...	...	...	...	...	15
Houses with Filthy Closets	...	...	...	...	...	...	2

Houses with Filthy Yards and Entries	14
Houses with Damp or Defective Walls	18
Houses without Proper or Through Ventilation (Back-to-Back Houses)	13
Bakehouses requiring Limewashing	1
Defective Middensteads... ..	3
Want of Middensteads	2
Accumulations of Manure	12
Accumulations of Water	1
Accumulations of Rubbish	10
Keeping of Animals	49
Smoke Nuisances	2
Insufficient Ventilation to Closets, Factory, of Workshop	3
Miscellaneous	148
Insufficient "Means of Escape in Case of Fire" to Factory or Workshop	2
Foul Closets	1
Workshops requiring Limewashing	1
Slaughter-houses requiring Limewashing	4

COMMON LODGING HOUSES AND HOUSES "LET-IN-LODGINGS."

The different Houses on our Register have been regularly visited, both by day and by night, by Mr. Bishop and myself, and have generally been found satisfactory as regards their cleanliness. At times the tenants have had to have their attention drawn to some informality in carrying out the requirements of the Bye-laws, but as a rule a verbal warning has proved sufficient.

COMMON LODGING HOUSES.

No. of Common Lodging Houses in the Borough	20
„ Lodgers Allowed Nightly	946
„ Visits by Day	2,233
„ „ Night	12
„ Lodgers reported as being received (per Returns)... ..	190,883
„ Letters sent out	10
„ Houses "Let-in-Lodgings" on Register	33
„ Visits by Day	989

COMMON LODGING HOUSES.

<i>No. on Register.</i>						<i>House.</i>
1	...	...	...	...	...	2 and 4, John Street.
2	...	...	...	...	...	"Brown Cow," Queen Street.
3	...	...	...	...	...	23, 25, Hardybutts.
4	...	...	...	...	...	46, Queen Street.
5	...	...	...	...	...	1, 3, 5, Union Street.
6	...	...	...	...	...	16, Hardybutts.
7	...	...	...	...	...	87, 89, 91, Millgate.
8	...	...	...	...	...	1, Hardybutts.
9	...	...	...	...	...	14, Scholes.
10	...	...	...	...	...	"The Mint," Scholes.
11	...	...	...	...	...	17, Warrington Lane.
12	...	...	...	...	...	7, Wiend.
13	...	...	...	...	...	1, Swift's Yard, Millgate.
14	...	...	...	...	...	7, Hardybutts.
15	...	...	...	...	...	32, Hardybutts.
24	...	...	...	...	...	28, Wiend.
34	...	...	...	...	...	27, Hallgate.
36	...	...	...	...	...	1, 3, 5, 7, 9, Scholes.
37	...	...	...	...	...	7, 9, Union Street.
38	...	...	...	...	...	36, 38, Hardybutts.

SLAUGHTER-HOUSES.

The number of Slaughter-houses (26) which are spread over a large area have been much more frequently visited than in 1909, and this entails a great amount of work on the Inspectors.

I must again give credit to the general body of butchers who seem to be only too willing to call in the help of the Department, if they have any beast which is affected in any way.

Appended is a List of the Slaughter-houses and the number of Beasts inspected by request; also the other food which has had to be destroyed as unfit for human consumption.

The subjoined statistics show the work that has been done during 1910 :—

SLAUGHTER-HOUSES & MARKETS, &c.

No. of Slaughter-houses in Borough	...	...	...	...	...	...	26
„ Offensive Trade Premises in Borough	...	...	...	...	...	...	6
„ Visits to Slaughter-houses	...	...	...	...	...	...	1,432
„ „ Offensive Trade Premises	...	...	...	...	...	...	79
„ „ Markets	...	...	...	...	...	...	385
„ Letters sent out	...	...	...	...	...	...	28
„ Condemned Food Certificates given	...	...	...	...	...	...	78
„ Knackers' Yards	...	...	...	...	...	...	2

SLAUGHTER-HOUSES.

Behind 8, Darlington Street.

Behind 60, Darlington Street.

Upper Morris Street.

Rigby's Buildings, Scholes.

Behind 124, Scholes.

Wiend.

Water Street.

Behind 75, Wigan Lane.

Bottom Croft.

Shaw's Yard, Hallgate.

Clayton Street.

Hilton's Yard, Scholes.

Mill Yard, Scholes.

Behind 53, Birkett Bank.

Altham's Yard, Standishgate.

Behind 133, Standishgate.

122, Scholes.

132a, Ormskirk Road.

Walthew House Farm.

274, Billinge Road.

808, Ormskirk Road.

Brickcroft, Lamberhead Green.

841, Ormskirk Road.

Smithy Brook, Goose Green.

270, Warrington Road.

Silver Street.

OFFENSIVE TRADE PREMISES.

Millgate.
Church Street.
Crompton Street.
Hallgate.
Watmough's Yard, Scholes.
Harrison Meadows.
Jackson's Yard, Scholes.
Miry Lane.

The number of Beasts that have been inspected by request during 1910.:—

No. of Beasts Passed	...	...	...	...	...	...	...	...	...	295½
„	Condemned	...	...	...	...	...	...	...	...	10

FOOD CONDEMNED, 1910.

January. 45 Cowheels ; 39 Rabbits.
February. 2 Fore-quarters of Meat ; 112lbs. of Bacon ; 49 Rabbits.
 ½ Box of Prunes ; 5 Boxes of Fish.
March. 1 Beast ; 1 Bag of Cockles ; 25 Rabbits.
April. 7 Rabbits ; 3 Boxes of Fish.
May. 2 Beasts ; 7 Rabbits ; 2 Bags of Shrimps ; 34 Boxes of
 Fish.
June. 3 Pigs ; 1 Wagon of Potatoes ; 2 Bags of Winkles ;
 60 Boxes of Fish ; 10lbs. of Fish.
July. 1 Lamb ; 4 Boxes of Fish.
August. ½ Carcase of Lamb ; 60 Cowheels ; 32 Boxes of Fish ;
 31lbs. of Fish.
Sept'ber. 519 Rabbits ; 25 Barrels of Pears ; 79 Boxes of Fish.
October. 1 Beast ; 93lbs. of Beef ; 29 Rabbits ; 16 Boxes of
 Fish ; 2 Baskets of Blackberries.
November. 1 Halibut ; 8 Rabbits.
December. 1 Beast ; 84 Rabbits ; 50 Geese ; 26 Boxes of Fish ;
 5 Crates of Bananas.

SUMMARY.

5 Beasts.	41lbs. Fish.
2 Fore-quarters Beef.	1 Halibut.
93lbs. Beef.	1 Bag Cockles.

1½ Carcases Lamb.	½ Box Prunes.
3 Pigs.	2 Bags Shrimps.
105 Cowheels.	2 Bags Winkles.
50 Geese.	1 Wagon Potatoes.
767 Rabbits.	5 Crates Bananas.
112lbs. Bacon.	25 Barrels Pears.
259 Boxes Fish.	2 Baskets Blackberries.

The following statement shows the quantities of Unwholesome Food Destroyed at the Miry Lane Depot, during the year :—

	T.	C.	Q.
Fish	13	10	3
Beef	7	2	2
Pork	0	9	1
	21	2	2

In addition to the above, the following was destroyed :—

	T.	C.	Q.
Shell and Fish Refuse	19	2	2
Other Refuse	101	6	1
	120	8	3

CANAL BOATS ACTS, 1877 TO 1884.

The Canal has been visited at different times during the year and the Boats plying thereon have been inspected. H.M. Inspector (Mr. Llewellyn) visited me on March 2nd, 1911, and after going through the books expressed himself as entirely satisfied at the way the work was being carried out by your Authority.

No. of Boats that have been Registered at Wigan...	...	...	265
„ „ still in use or available ... ..	...	...	81
„ „ not in use ... ..	...	...	153
„ „ that cannot be traced ... ..	...	...	11
„ „ re-registered with other Authorities ... ..	...	...	9
„ „ „ at Wigan ... ..	...	...	7

No. of	Applications for Registration during 1910	...	...	...	4
„	„ Granted	...	...	...	4
„	Inspections	...	...	...	163
„	Notices issued	...	...	...	11
„	„ complied with	...	...	...	8
„	Contraventions of Regulations	...	...	...	12
„	Letters sent out	...	...	...	31

SMOKE NUISANCES.

During the past year Twenty-eight Observations were taken, but in only two instances had letters to be served. Although there is a decided improvement in the firing there is still too much black smoke emitted from the different chimneys, and it is to be hoped that during the year 1911 further improvement may be noted.

No. of Smoke Observations taken	...	...	...	...	...	...	28
,, Notices issued	...	...	...	...	...	...	—
,, „ complied with	...	...	...	...	...	...	—
,, Letters sent out	...	...	...	...	...	...	2

INFECTIOUS DISEASES.

During the year the work has been lighter than in the preceding year, consequent on less cases of Measles having been visited, but even now Mr. Martlew's time is fully taken up in visiting and re-visiting cases and carrying out the instructions of the Medical Officer of Health.

Appended is a summary of the work done :—

INFECTIOUS DISEASES (PREVENTION ACT).

No. of Houses Disinfected	...	...	...	...	...	...	...	540
„ Rooms Disinfected	...	...	...	...	...	...	...	710
„ Beds Disinfected	...	...	...	...	...	...	...	463
„ Mattresses Disinfected	...	...	...	...	...	...	...	124
„ Sheets and Quilts Disinfected	...	...	...	...	...	...	...	1,964
„ Other Articles Disinfected...	...	...	...	...	...	...	...	4,835
„ Premises Cleansed and Limewashed after Infectious Disease	...	...	...	...	...	...	...	343
„ Visits to Houses <i>re</i> Limewashing and Cleansing, &c....								577
„ „ <i>re</i> Infectious Disease					...	...	...	1,624
„ Letters sent out <i>re</i> Infectious Disease					...	...	...	16
„ „ <i>re</i> Limewashing, &c.					...	...	...	57

SALE OF FOOD AND DRUGS ACTS, 1877 TO 1907.
MARGARINE ACTS, 1877 TO 1899.

Appended is the List of Samples taken under the Acts with the results as stated by the Public Analyst :—

No. of Samples Obtained for Analysis	...	...	...	...	...	214
„ „ Genuine	...	...	...	...	...	201
„ „ Adulterated	...	...	...	...	...	13
„ „ “Not Formal”	...	...	...	...	...	58
„ Letters sent out	...	...	...	...	...	10

	Samples.	Genuine.	Adulterated.	Not Formal.
New Milk	128	120	8	5
Cheese	4	4	—	2
Butter	36	36	—	6
Marmalade	1	—	1	1
Rice	8	8	—	8
Tea	6	6	—	6
Coffee	5	5	—	5
Whiskey	18	16	2	17
Brandy	8	6	2	8
Total	214	201	13	58

	New Milk.	Whiskey.	Brandy	Marmalade
Withdrawn	2	—	—	—
Convicted	2	—	—	—
No action taken, warned	4	2	2	—
„ informal	—	—	—	1
Total	8	2	2	1

FERTILISERS AND FOOD STUFFS ACT.

Seventeen samples were taken during the year under the above Act, the results of which will be found in the Analyst's report.

FACTORY AND WORKSHOP ACTS.

Many visits have been paid to the different factories in the district, generally on reports made by H.M. Inspectors of Factories, and where the requirements were needed, notices were served, and the alterations attended to. Appended are particulars :—

FACTORY AND WORKSHOP ACTS.

No. of Workshops in Borough	...	...	...	...	...	...	...	575
„ Visits to Workshops	...	...	...	...	...	...	...	683
„ „ Factories	...	...	...	...	...	...	...	165
„ Letters sent out	...	...	...	...	...	...	...	66

SHOP HOURS ACTS.

No. of Visits to Shops	...	...	...	...	...(day)	...	...	...	22
„ „ re Closing Order	...	...	...	...	...(day)	...	...	...	507
„ „ „	...	...	...	...	...(night)	...	...	...	654

DAIRIES, COWSHEDS AND MILKSHOPS ORDER.

When visited the different places were generally found in a satisfactory condition.

No. of Visits	42
---------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

PROSECUTIONS, 1910.

April 11th.	For exposing child suffering from Scarlet Fever. Fined 1/- and costs.
June 6th.	For selling to the prejudice of the purchaser, one pint of new milk, not of the nature, &c., demanded. Fined 5/- and costs.
June 6th.	For selling to the prejudice of the purchaser, one pint of new milk, not of the nature, &c., demanded. Case adjourned fourteen days, and then dismissed.

November 28th. For selling to the prejudice of the purchaser, one pint of new milk, not of the nature, &c., demanded. Fined 20/- and costs.

November 28th. For selling to the prejudice of the purchaser, one pint of new milk, not of the nature, &c., demanded. Case withdrawn.

In conclusion, gentlemen, I have to tender you my sincere thanks for the help and consideration extended to me by the Committee; and to the Inspectors on the staff of the Department, I am greatly indebted for the loyalty and zeal they have at all times shown.

I remain, Gentlemen,

Your obedient Servant,

JOHN SUMNER, ASSOC: R.S.I.,

Chief Sanitary Inspector.

